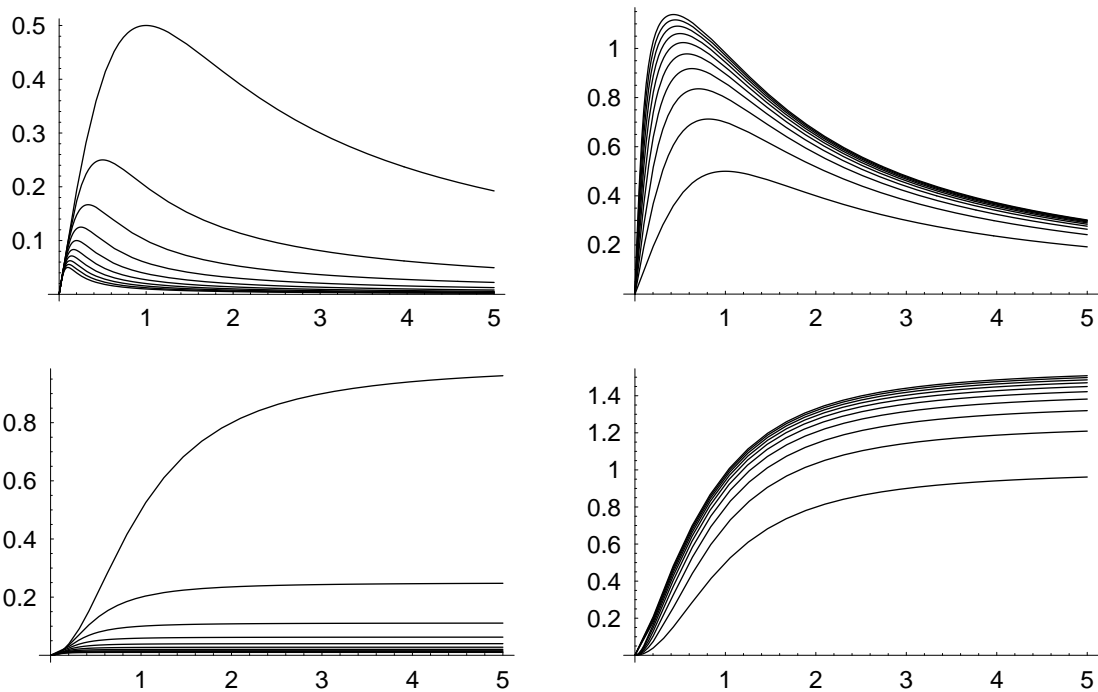


Obrázky ke kapitole 13

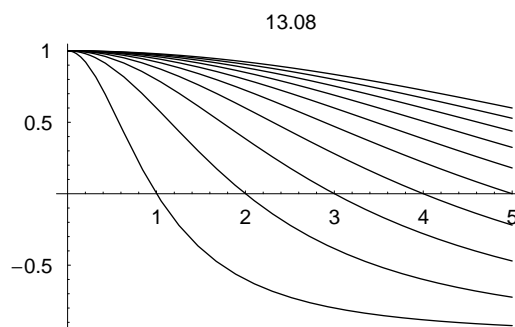
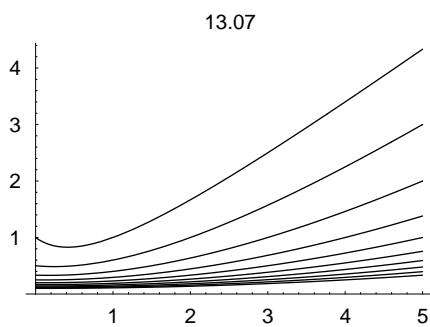
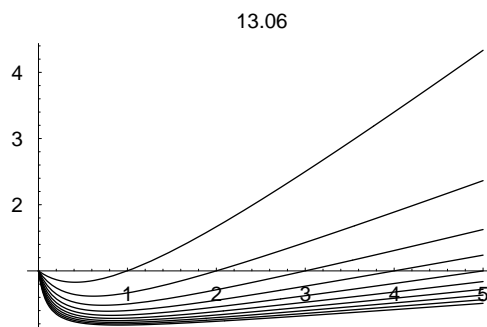
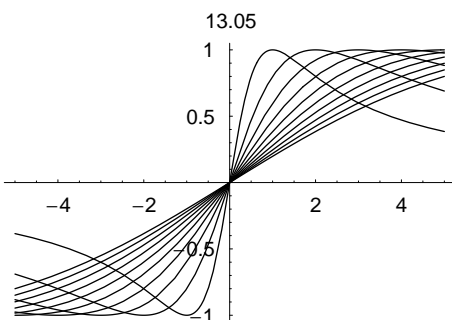
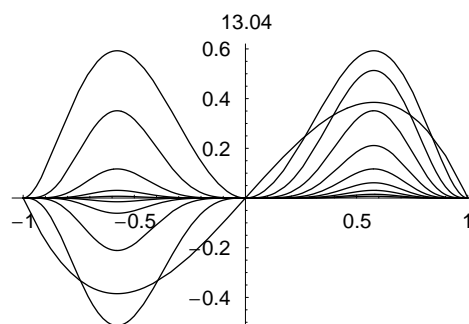
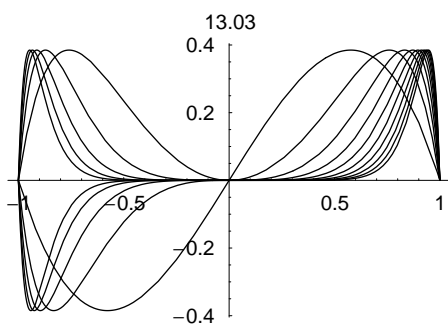
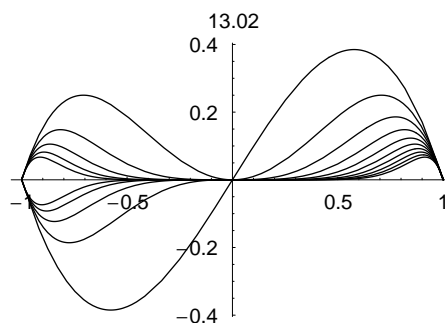
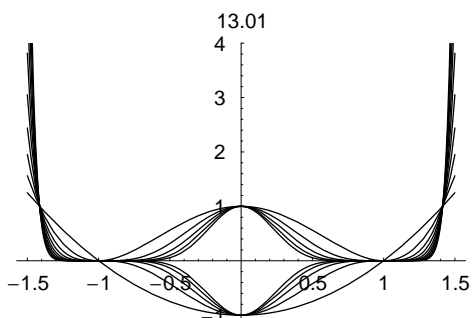
Příklad 13.9 na str.62

Stejněměrná konvergence dvou posloupností a příslušných řad

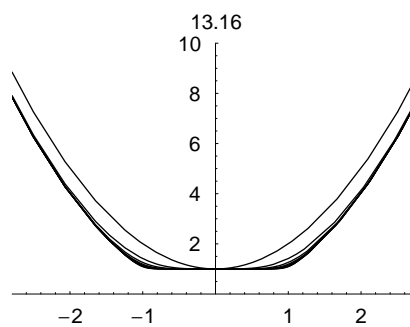
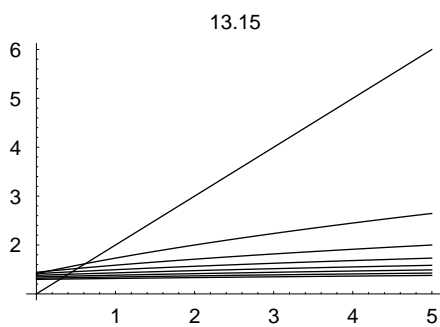
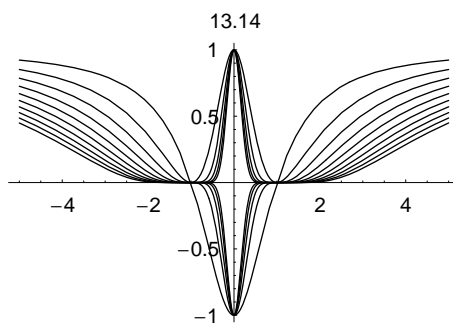
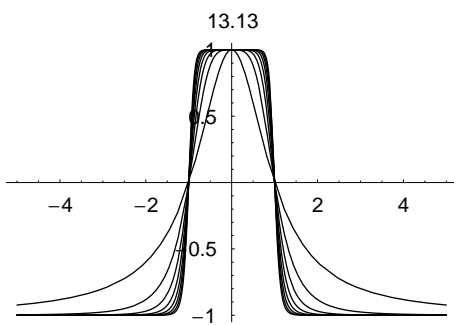
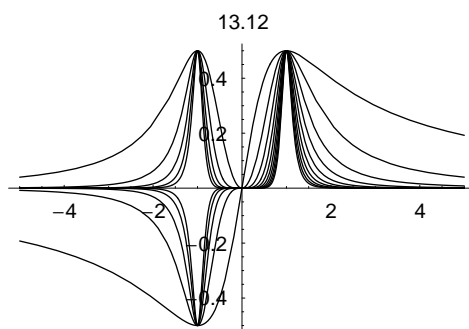
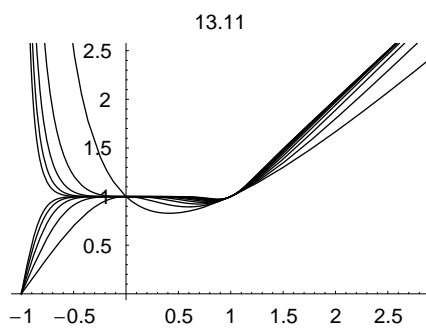
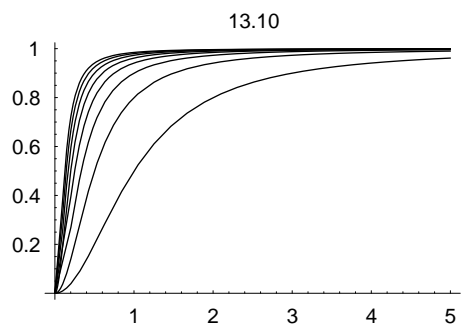
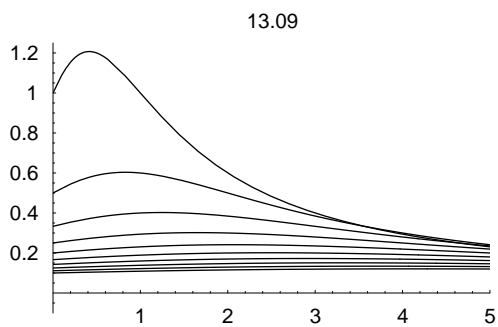


První (resp. druhý) řádek vlevo: grafy funkcí f_1, \dots, f_{10} (resp. g_1, \dots, g_{10}),
vpravo grafy příslušných částečných součtů

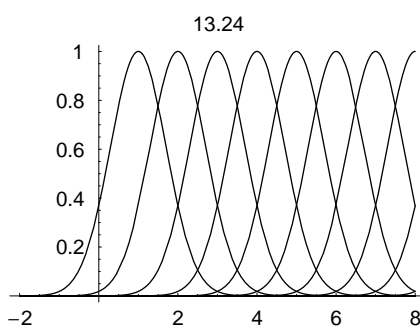
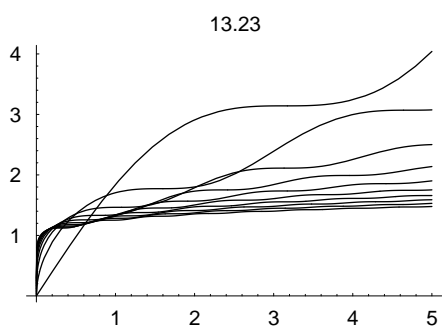
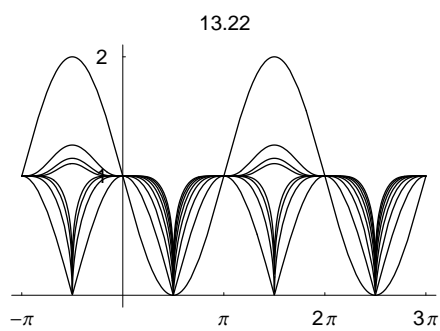
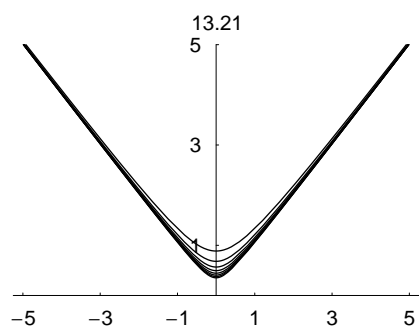
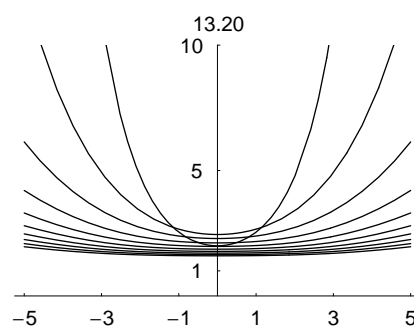
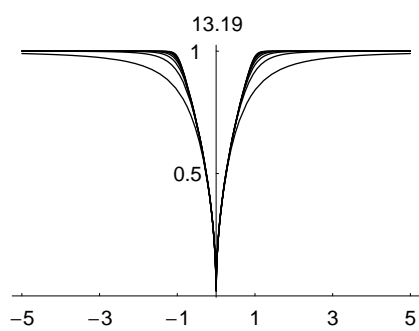
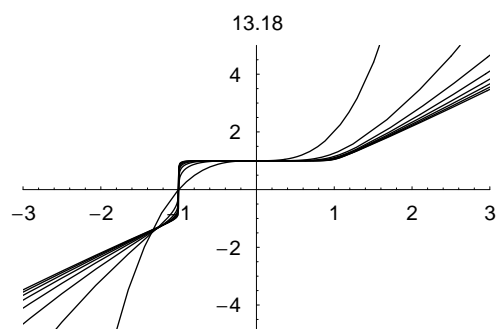
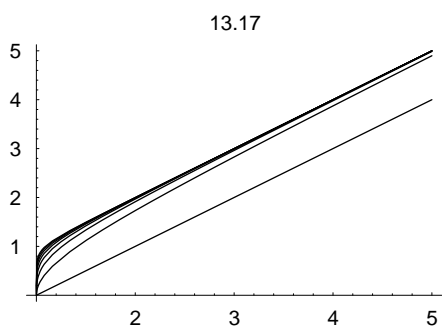
Cvičení 13.01 až 13.08 na str. 76 a 77 – stejnoměrná konvergence posloupnosti



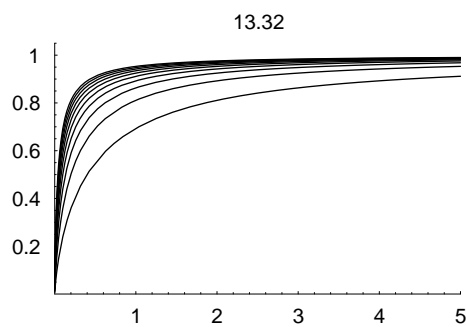
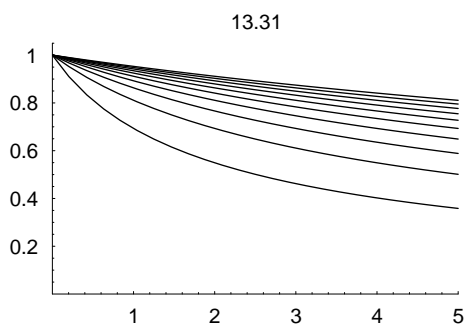
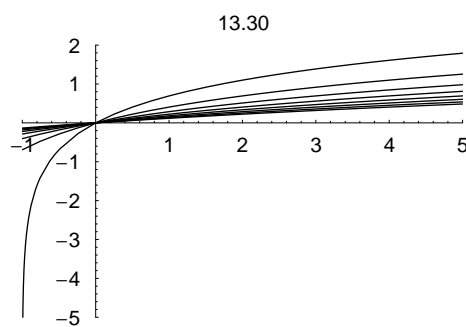
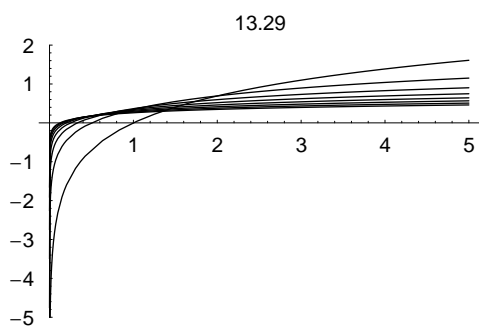
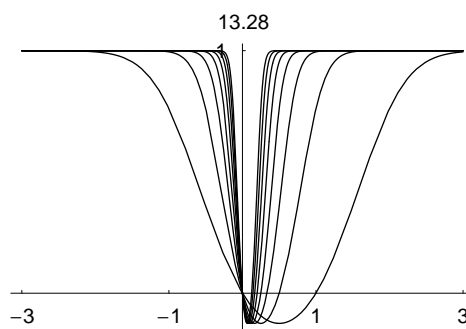
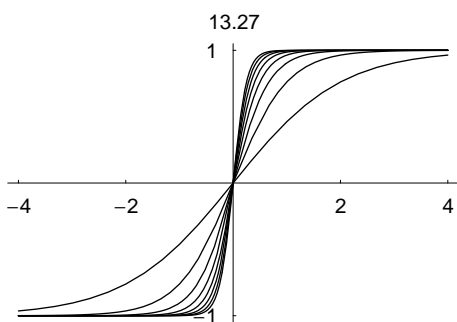
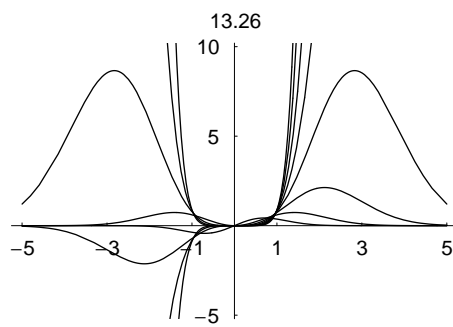
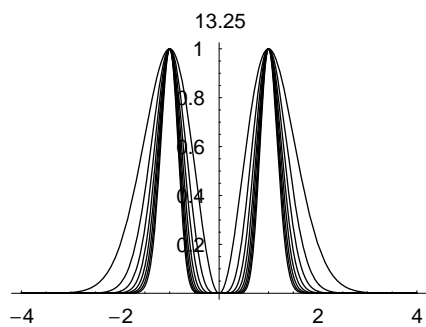
Cvičení 13.09 až 13.16 na str.77 – stejnoměrná konvergence posloupnosti



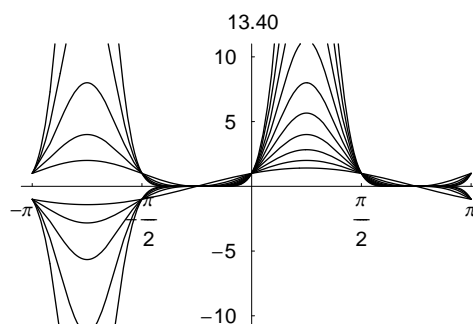
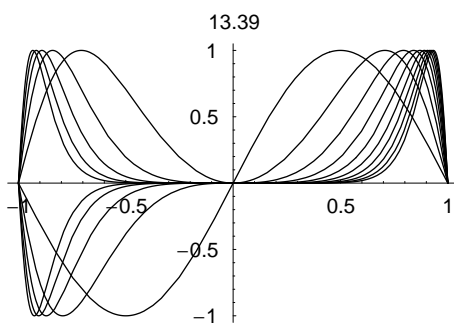
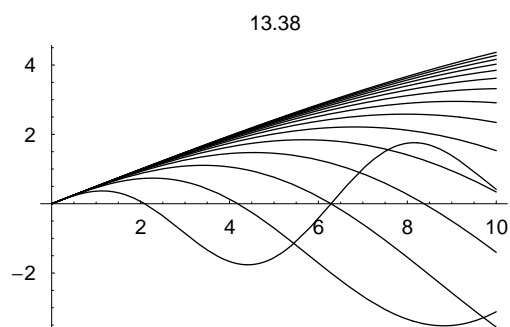
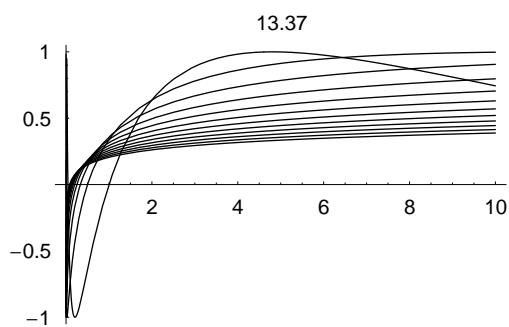
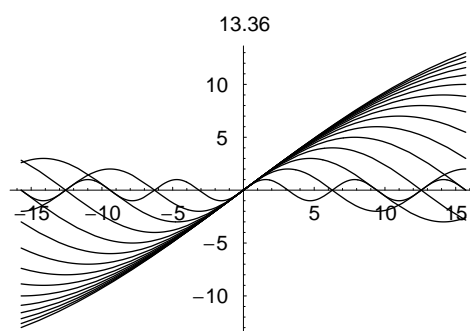
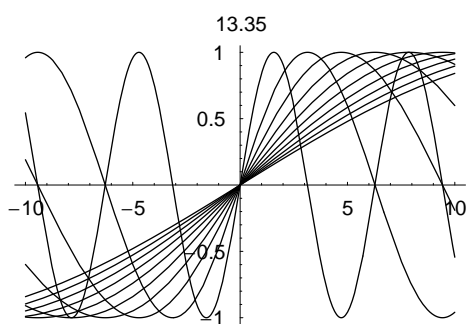
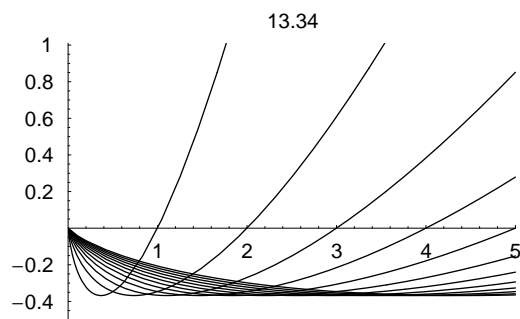
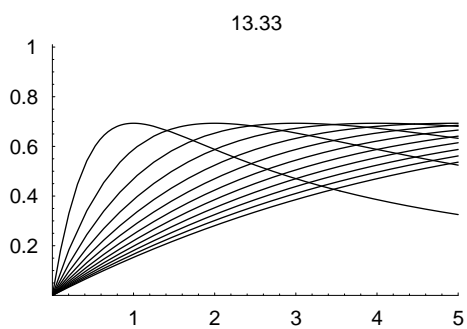
Cvičení 13.17 až 13.24 na str.77 – stejnoměrná konvergence posloupnosti



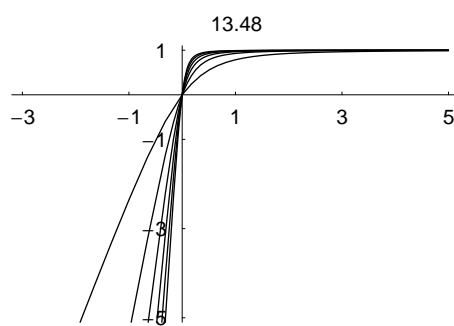
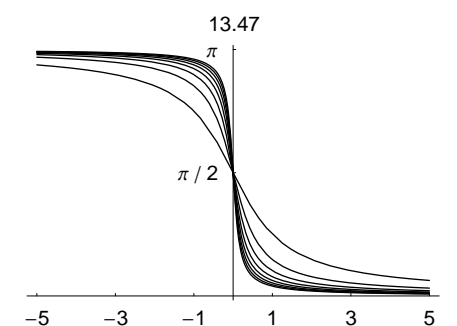
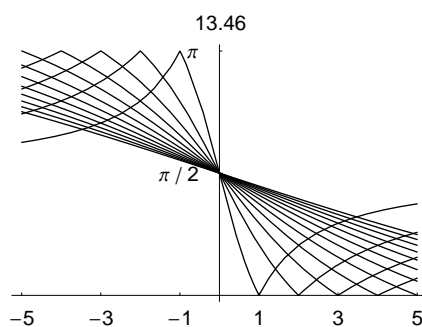
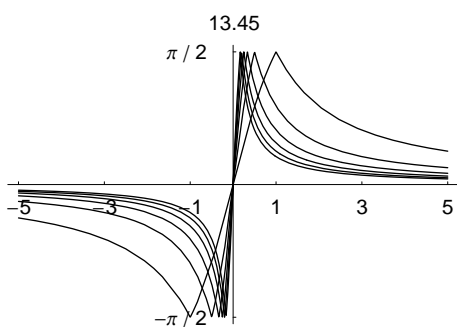
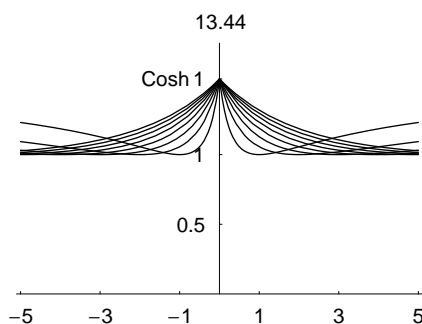
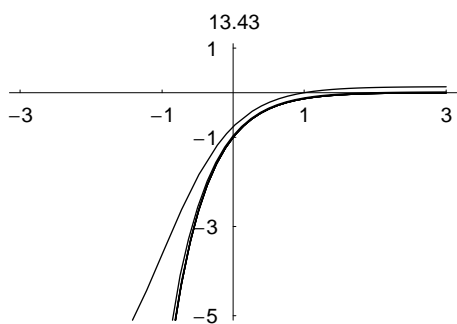
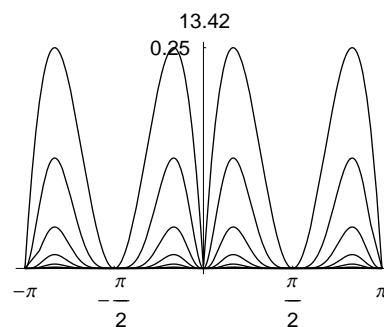
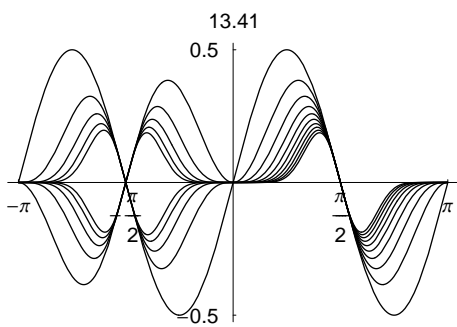
Cvičení 13.25 až 13.32 na str. 77 – stejnoměrná konvergence posloupnosti



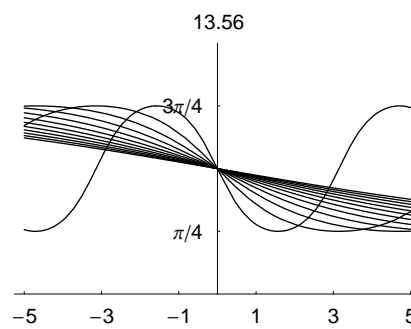
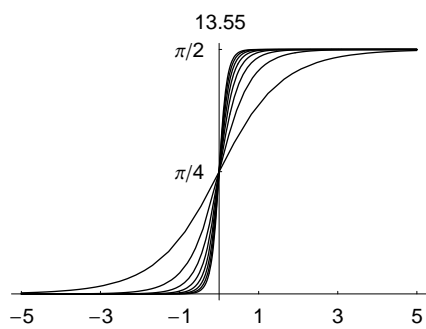
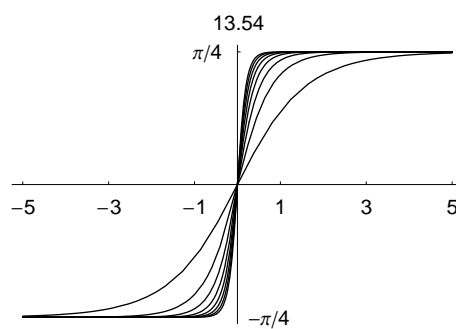
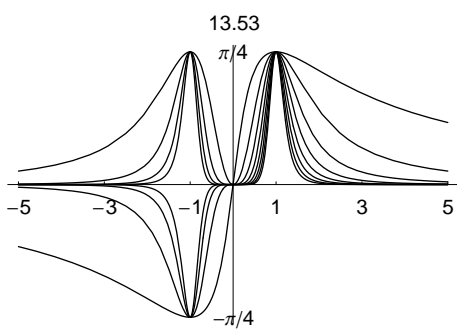
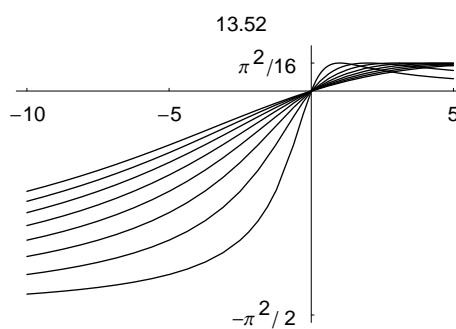
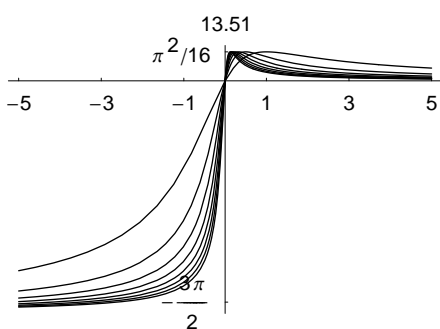
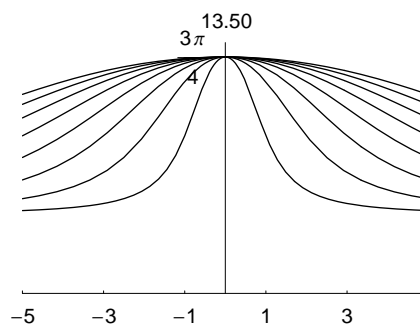
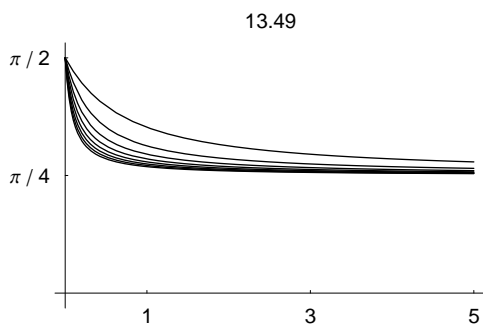
Cvičení 13.33 až 13.40 na str.77 – stejnoměrná konvergence posloupnosti



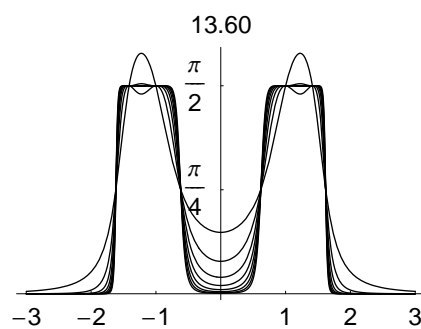
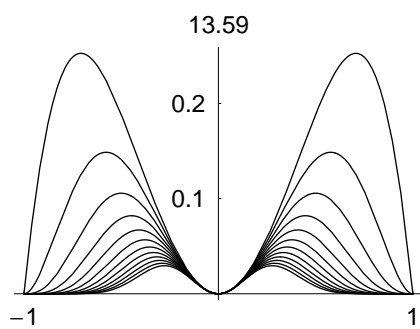
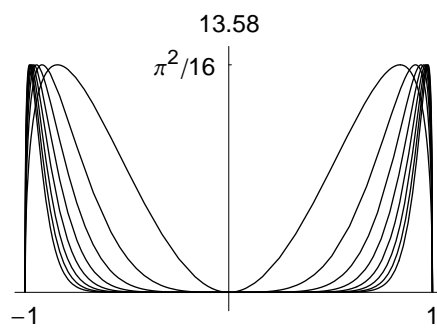
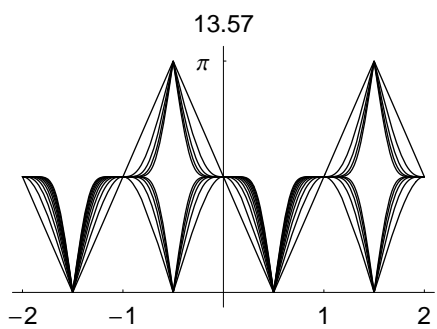
Cvičení 13.41 až 13.48 na str.77 – stejnoměrná konvergence posloupnosti



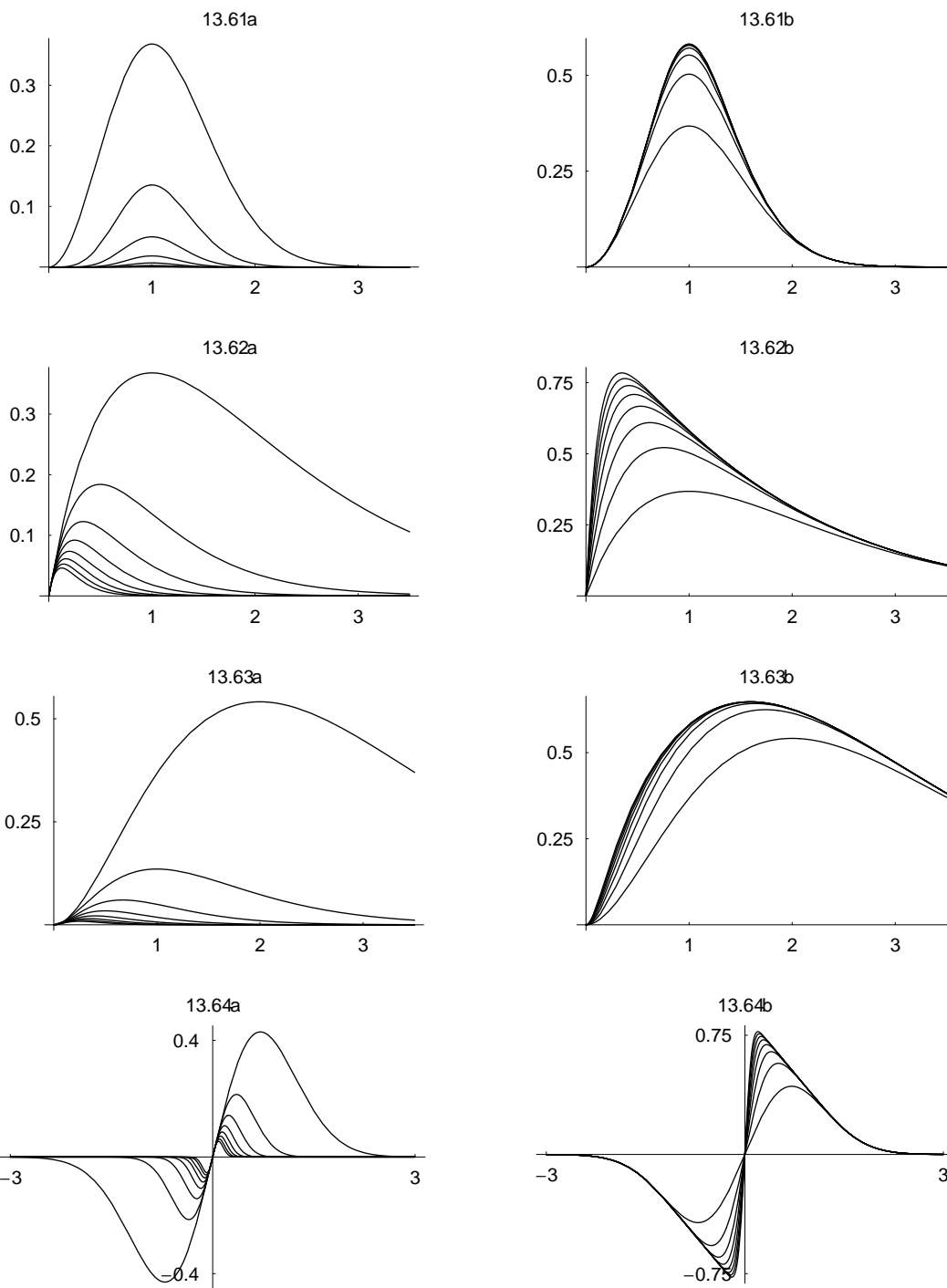
Cvičení 13.49 až 13.56 na str. 77 a 78 – stejnoměrná konvergence posloupnosti



Cvičení 13.57 až 13.60 na str. 78 – stejnoměrná konvergence posloupnosti

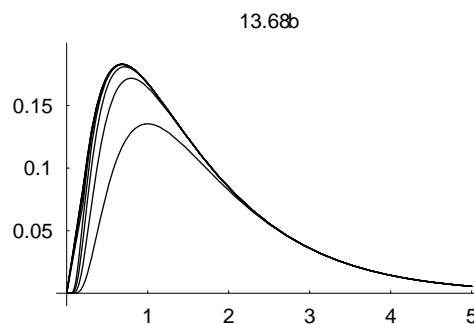
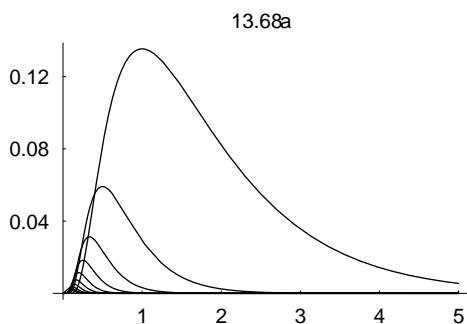
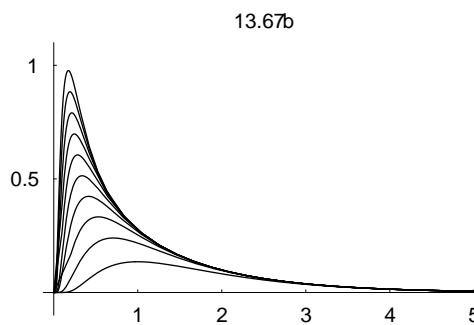
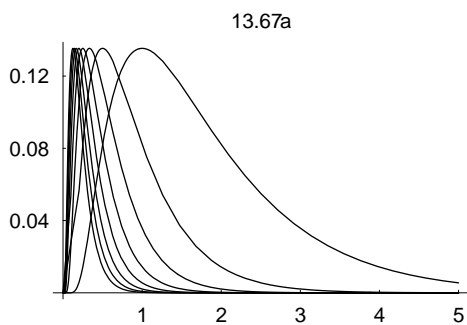
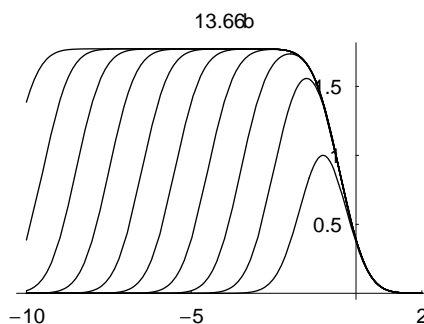
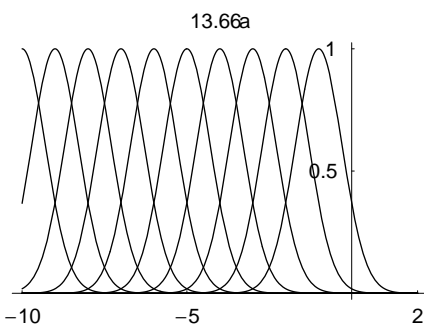
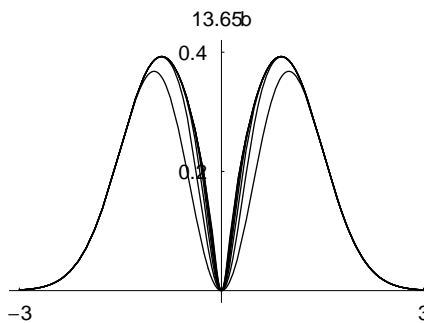
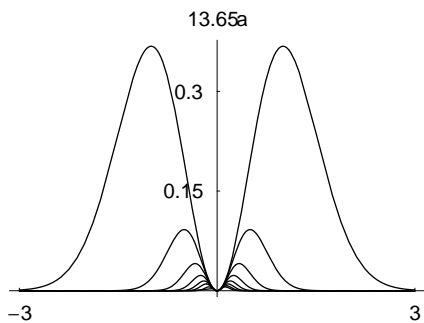


Cvičení 13.61 až 13.64 na str. 78 – stejnoměrná konvergence řady



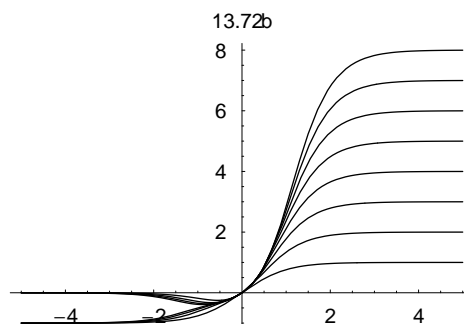
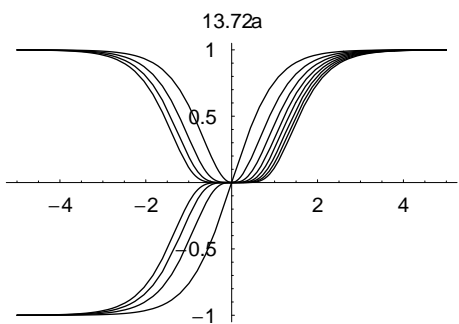
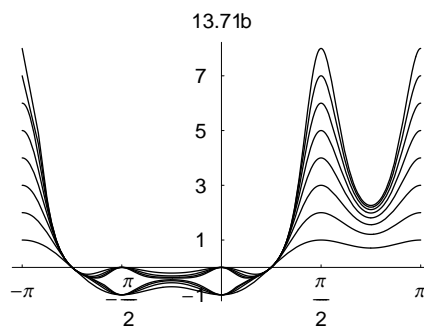
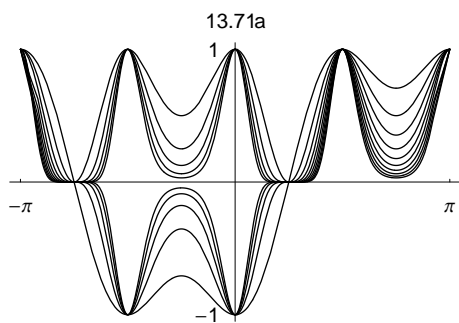
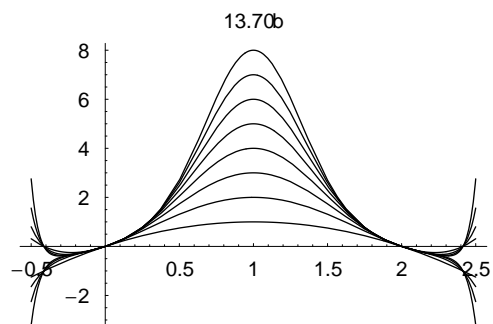
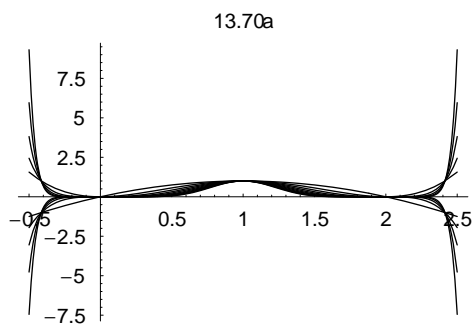
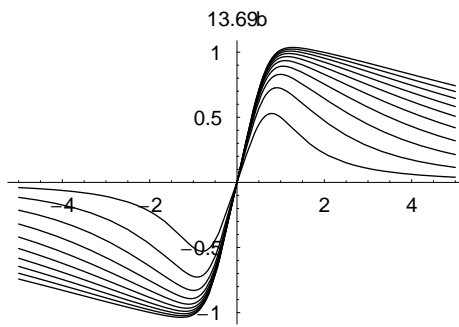
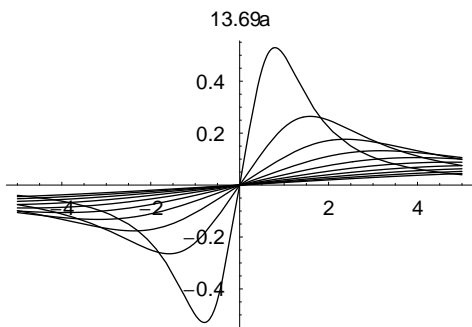
Vlevo grafy členů posloupnosti (a), vpravo grafy příslušných částečných součtů (b)

Cvičení 13.65 až 13.68 na str. 78 – stejnoměrná konvergence řady



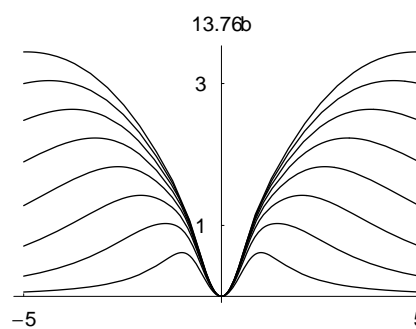
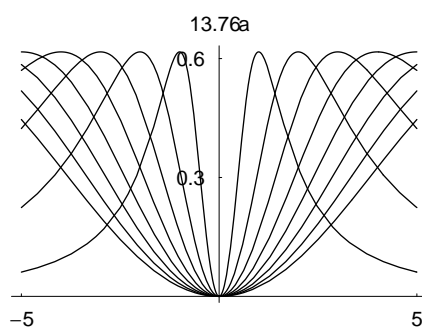
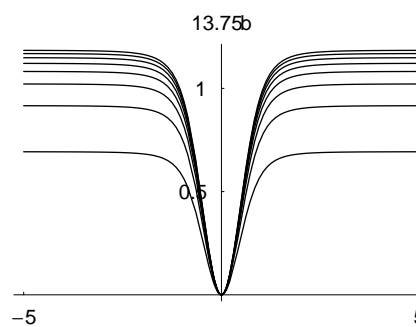
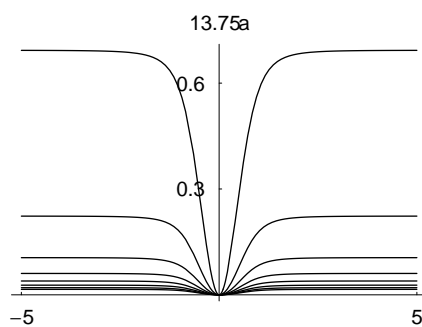
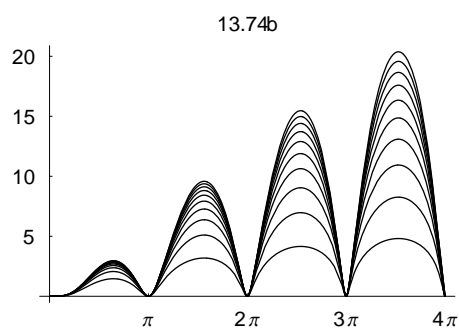
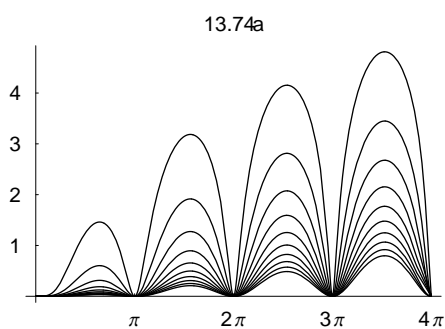
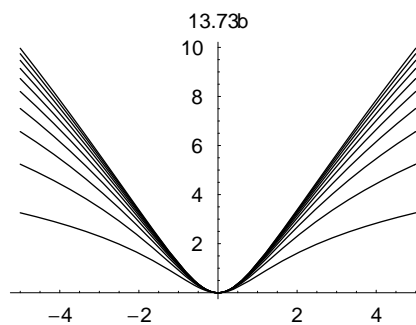
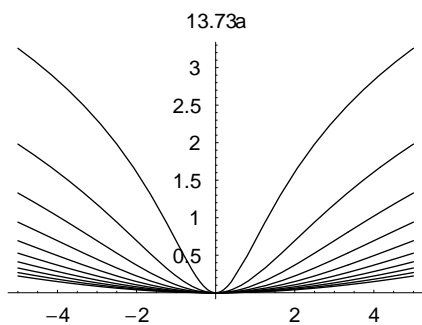
Vlevo grafy členů posloupnosti (a), vpravo grafy příslušných částečných součtů (b)

Cvičení 13.69 až 13.72 na str. 78 – stejnoměrná konvergence řady



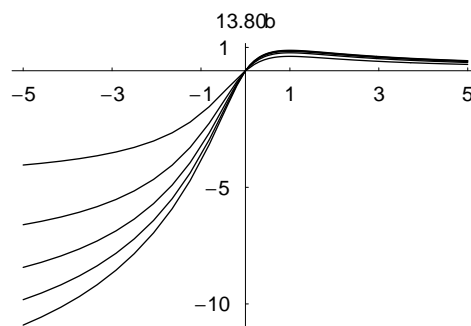
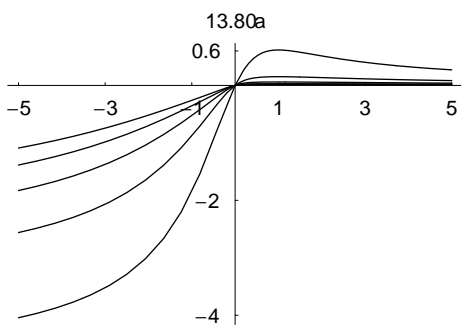
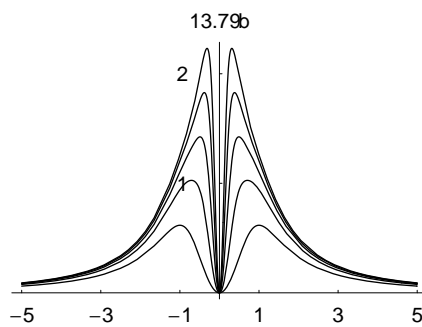
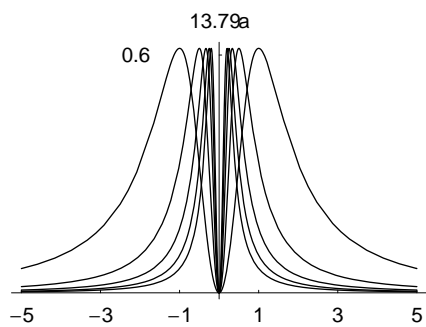
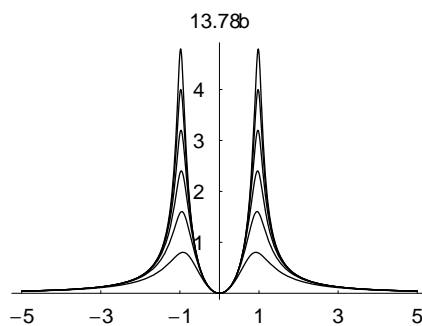
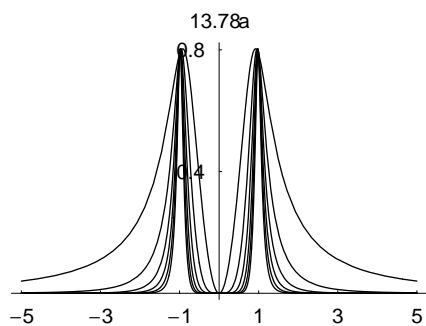
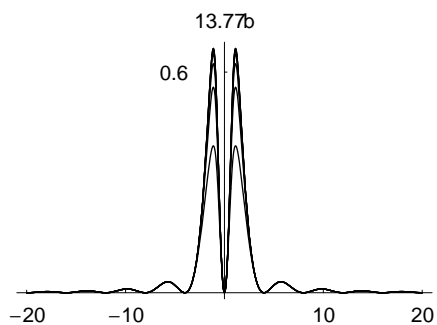
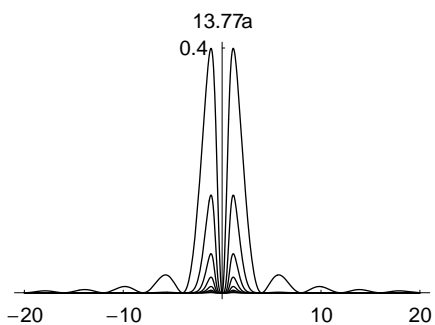
Vlevo grafy členů posloupnosti (a), vpravo grafy příslušných částečných součtů (b)

Cvičení 13.73 až 13.76 na str. 78 – stejnoměrná konvergence řady



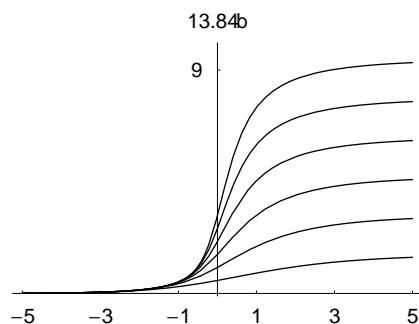
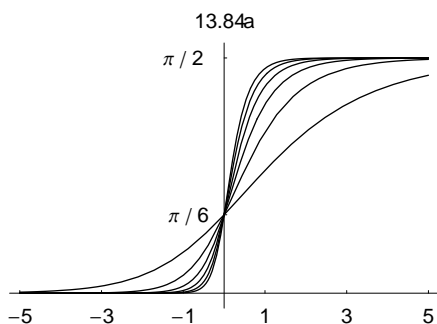
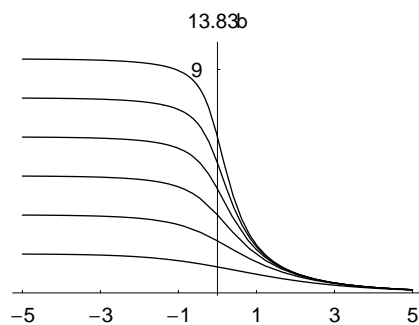
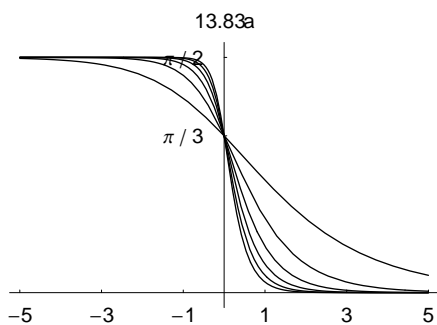
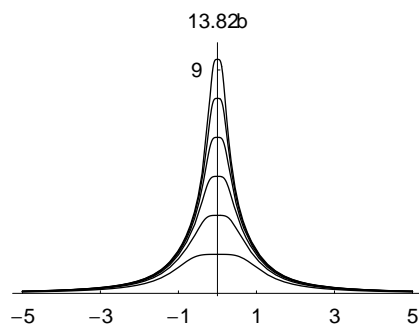
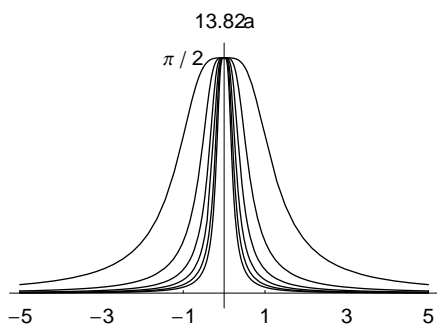
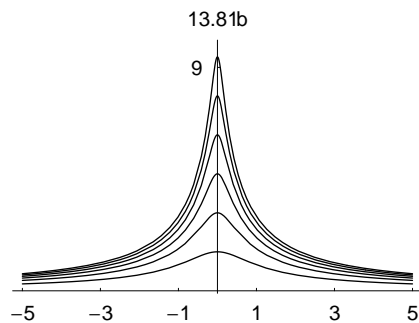
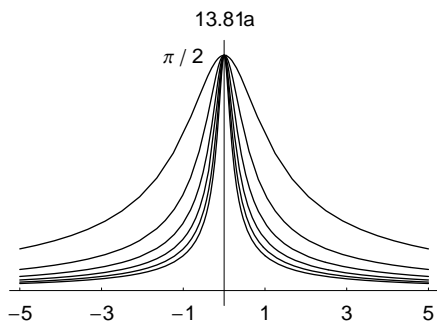
Vlevo grafy členů posloupnosti (a), vpravo grafy příslušných částečných součtů (b)

Cvičení 13.77 až 13.80 na str. 78 – stejnoměrná konvergence řady



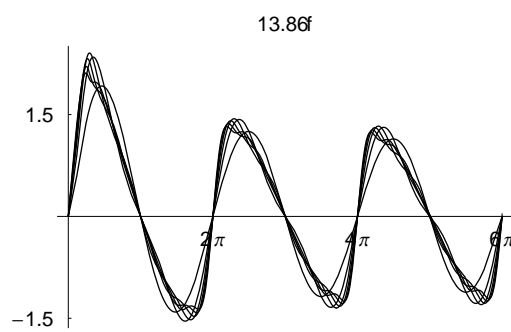
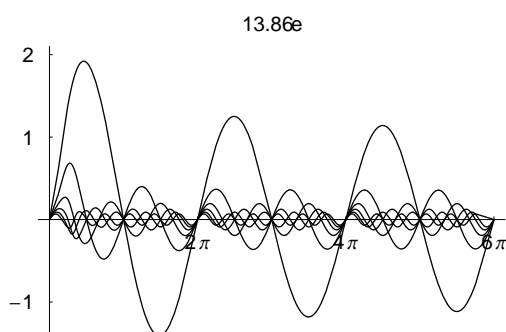
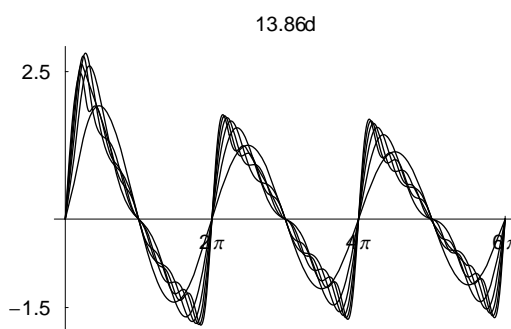
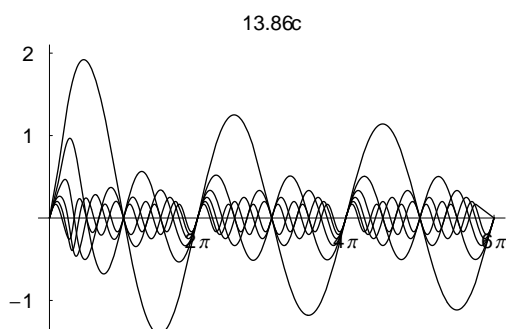
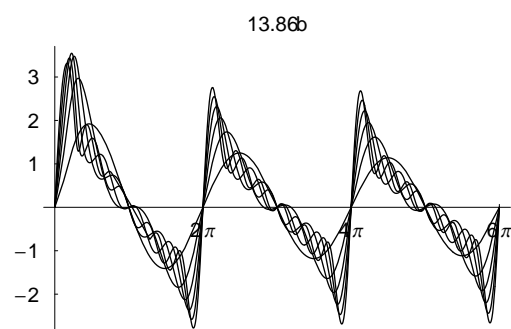
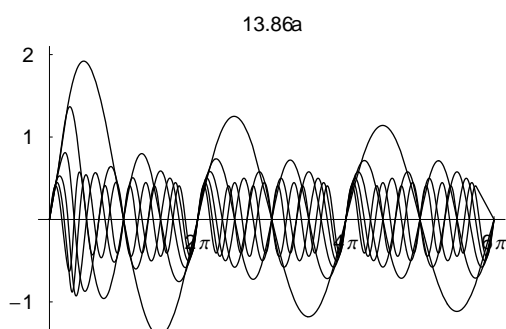
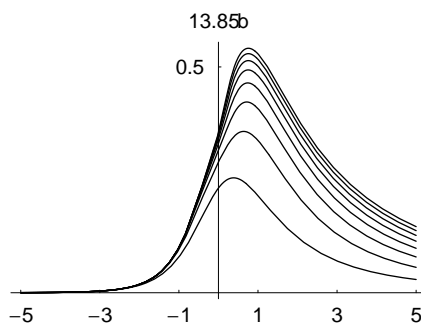
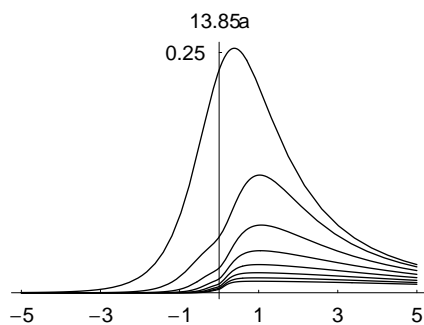
Vlevo grafy členů posloupnosti (a), vpravo grafy příslušných částečných součtů (b)

Cvičení 13.81 až 13.84 na str. 78 – stejnoměrná konvergence řady



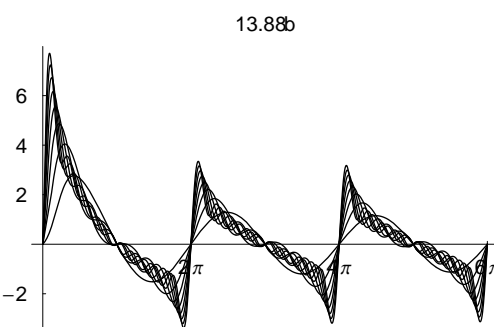
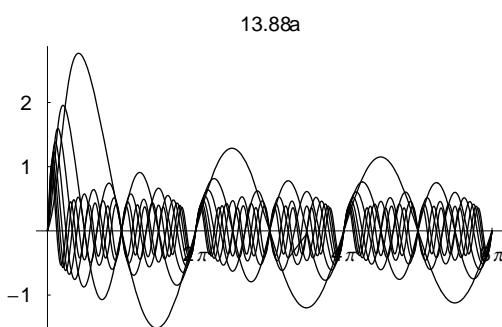
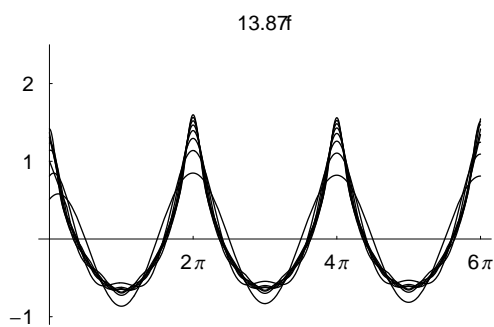
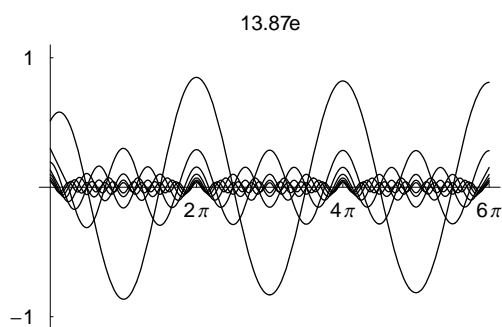
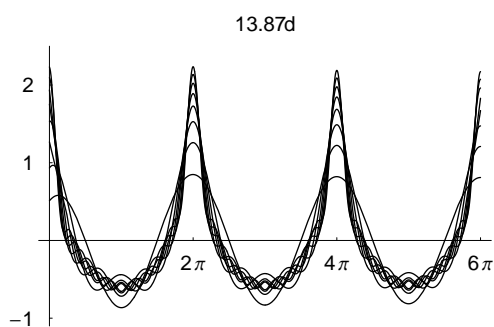
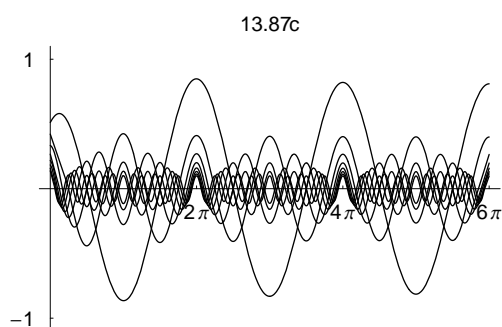
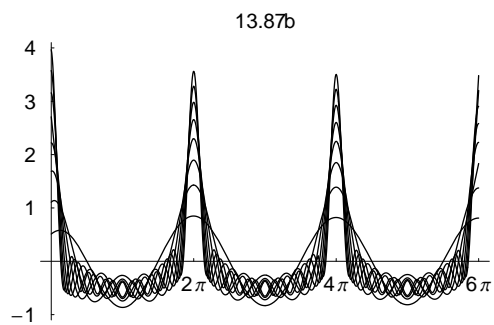
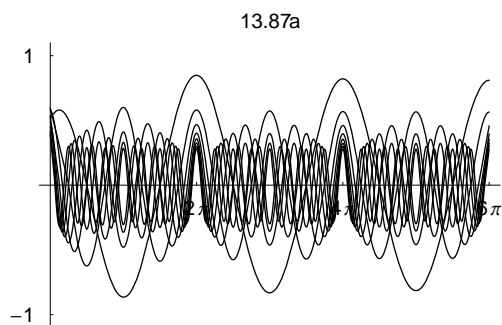
Vlevo grafy členů posloupnosti (a), vpravo grafy příslušných částečných součtů (b)

Cvičení 13.85 a 13.86 na str.78 – stejnoměrná konvergence řady



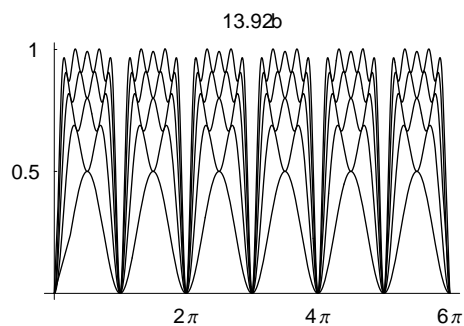
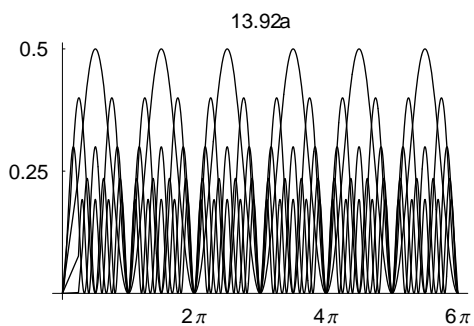
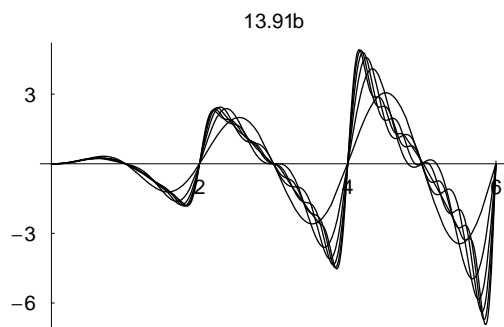
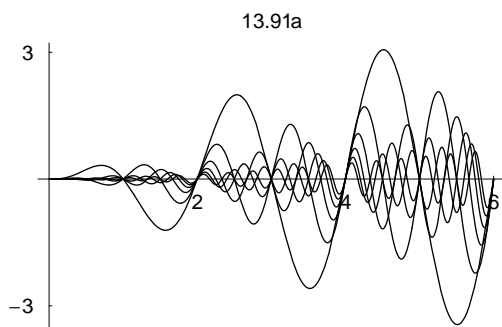
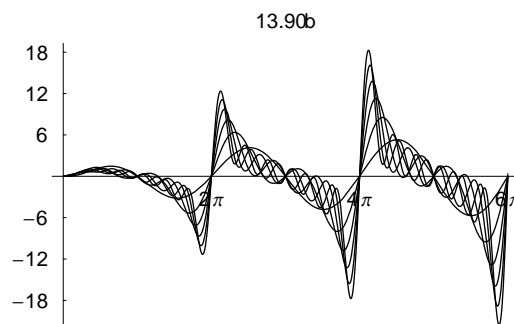
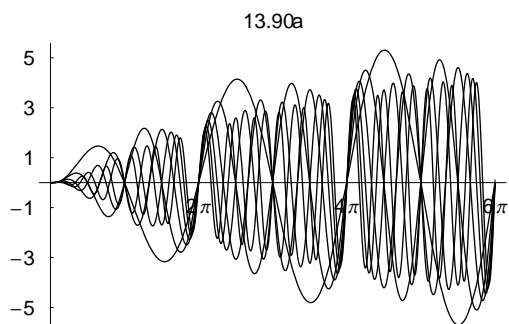
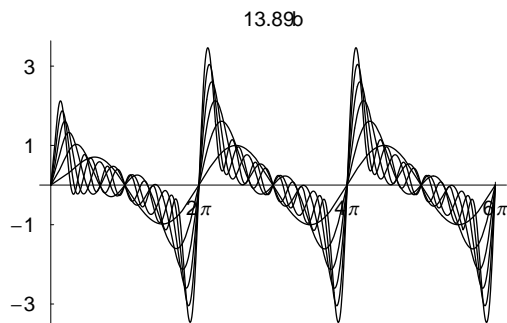
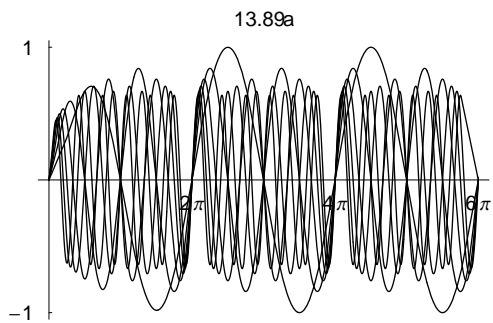
Vlevo grafy členů posloupnosti (a,c,e), vpravo grafy příslušných částečných součtů (b,d,f);
u příkladu 13.86 odpovídají dvojice (a,b), (c,d), (e,f) po řadě hodnotám $\alpha = \frac{1}{2}, 1, \frac{3}{2}$

Cvičení 13.87 a 13.88 na str.78 – stejnoměrná konvergence řady



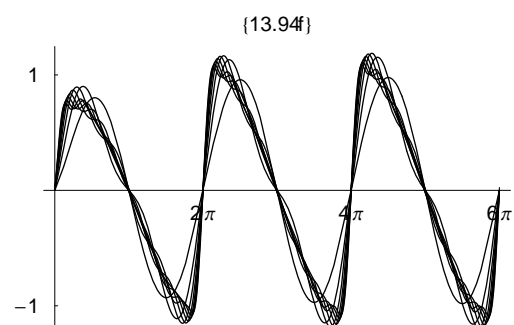
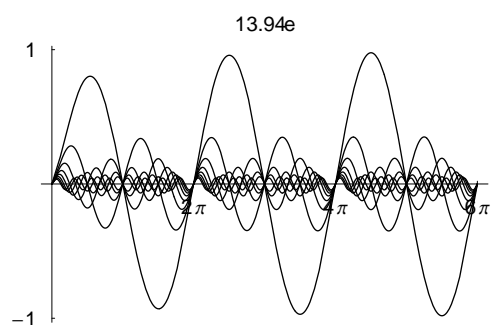
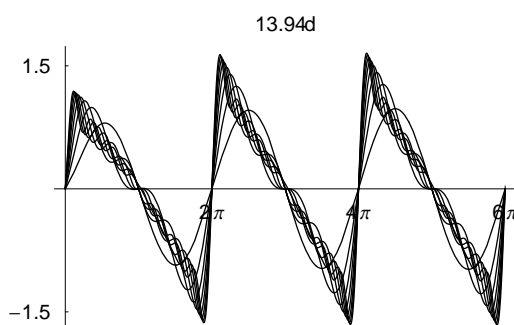
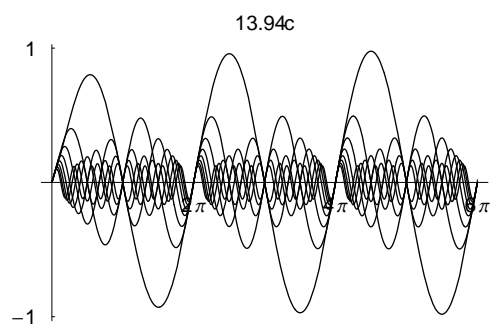
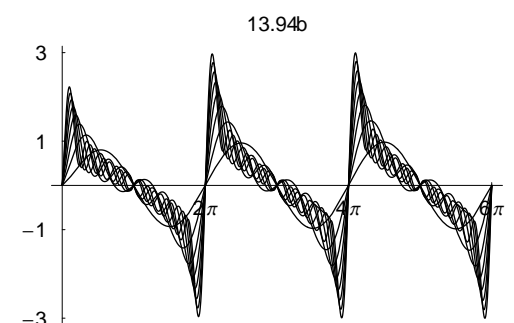
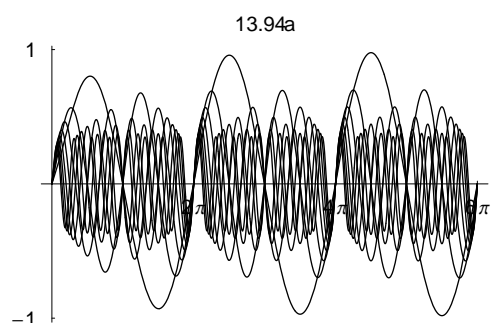
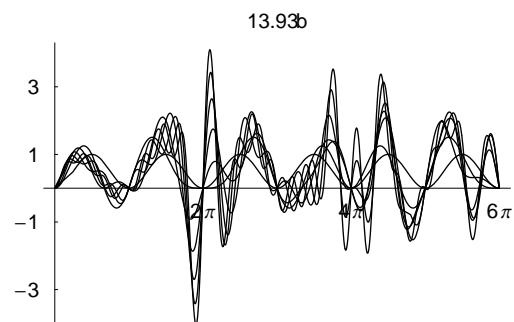
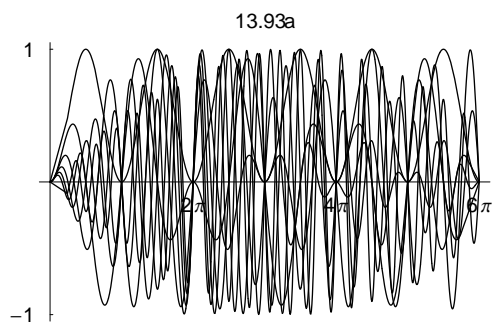
Vlevo grafy členů posloupnosti (a,c,e), vpravo grafy příslušných částečných součtů (b,d,f);
u příkladu 13.87 odpovídají dvojice (a,b), (c,d), (e,f) po řadě hodnotám $\alpha = \frac{1}{2}, 1, \frac{3}{2}$

Cvičení 13.89 až 13.92 na str.79 – stejnoměrná konvergence řady



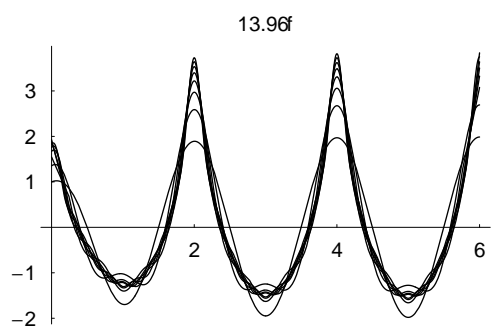
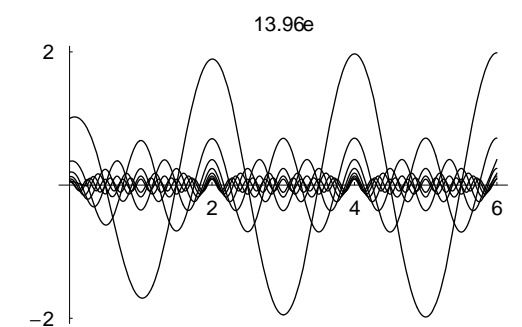
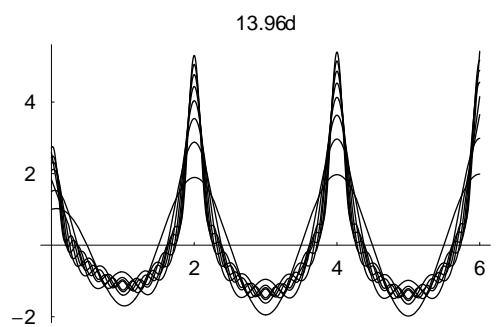
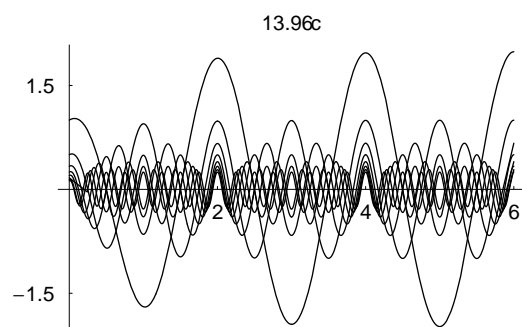
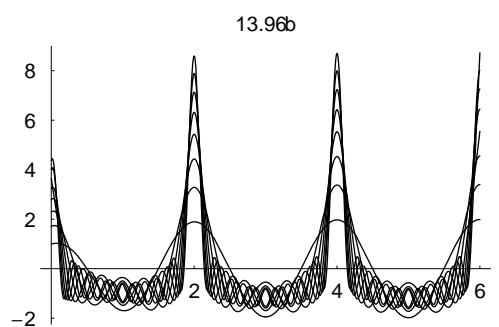
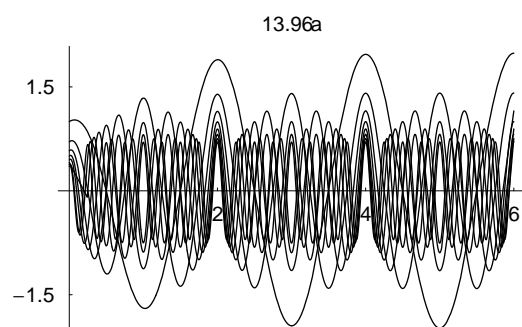
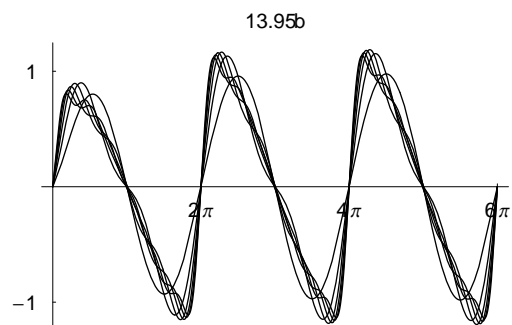
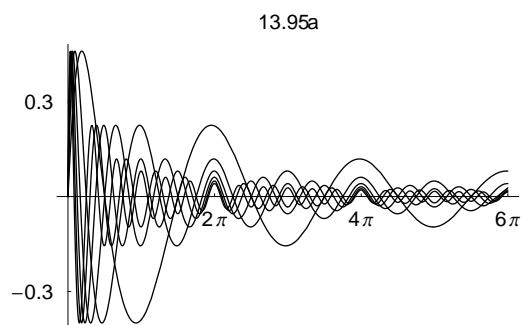
Vlevo grafy členů posloupnosti (a), vpravo grafy příslušných částečných součtů (b)

Cvičení 13.93 a 13.94 na str.79 – stejnoměrná konvergence řady



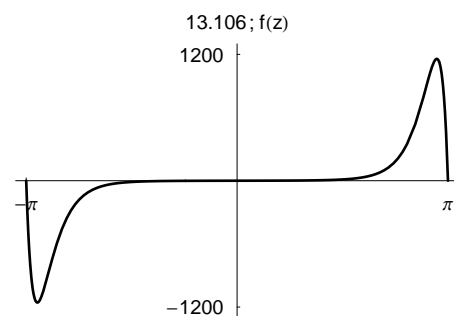
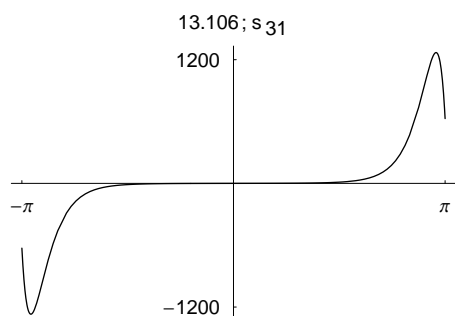
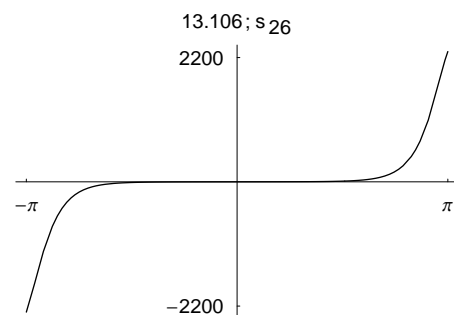
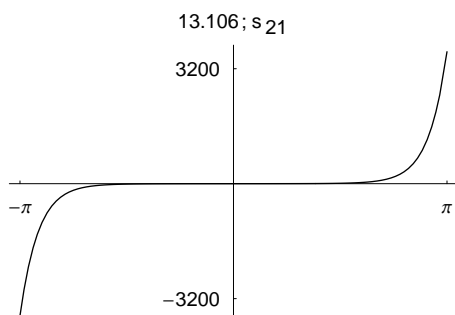
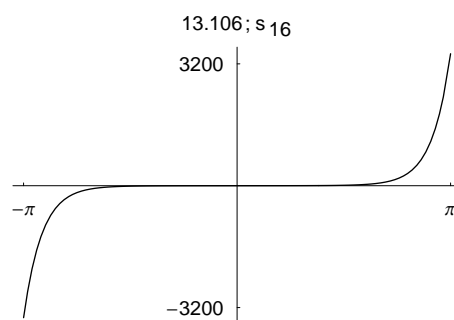
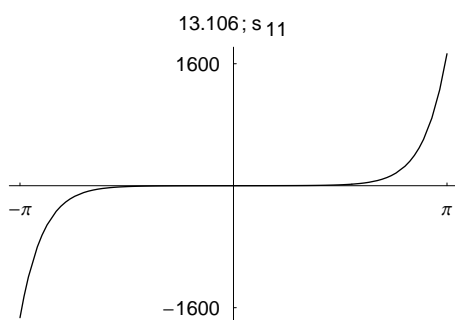
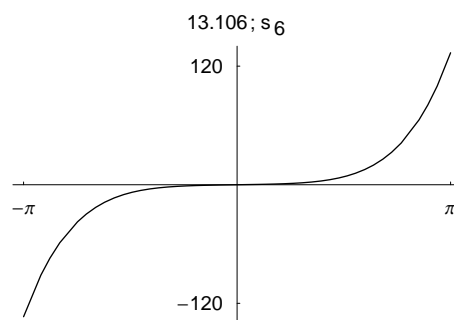
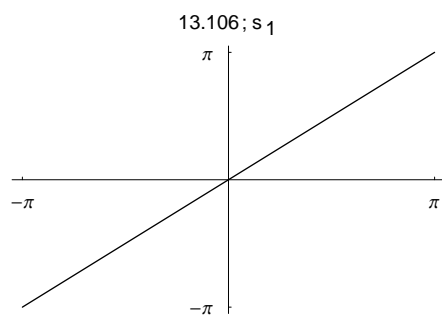
Vlevo grafy členů posloupnosti (a,c,e), vpravo grafy příslušných částečných součtů (b,d,f);
u příkladu 13.94 odpovídají dvojice (a,b), (c,d), (e,f) po řadě hodnotám $\alpha = \frac{1}{2}, 1, \frac{3}{2}$

Cvičení 13.95 a 13.96 na str.79 – stejnoměrná konvergence řady



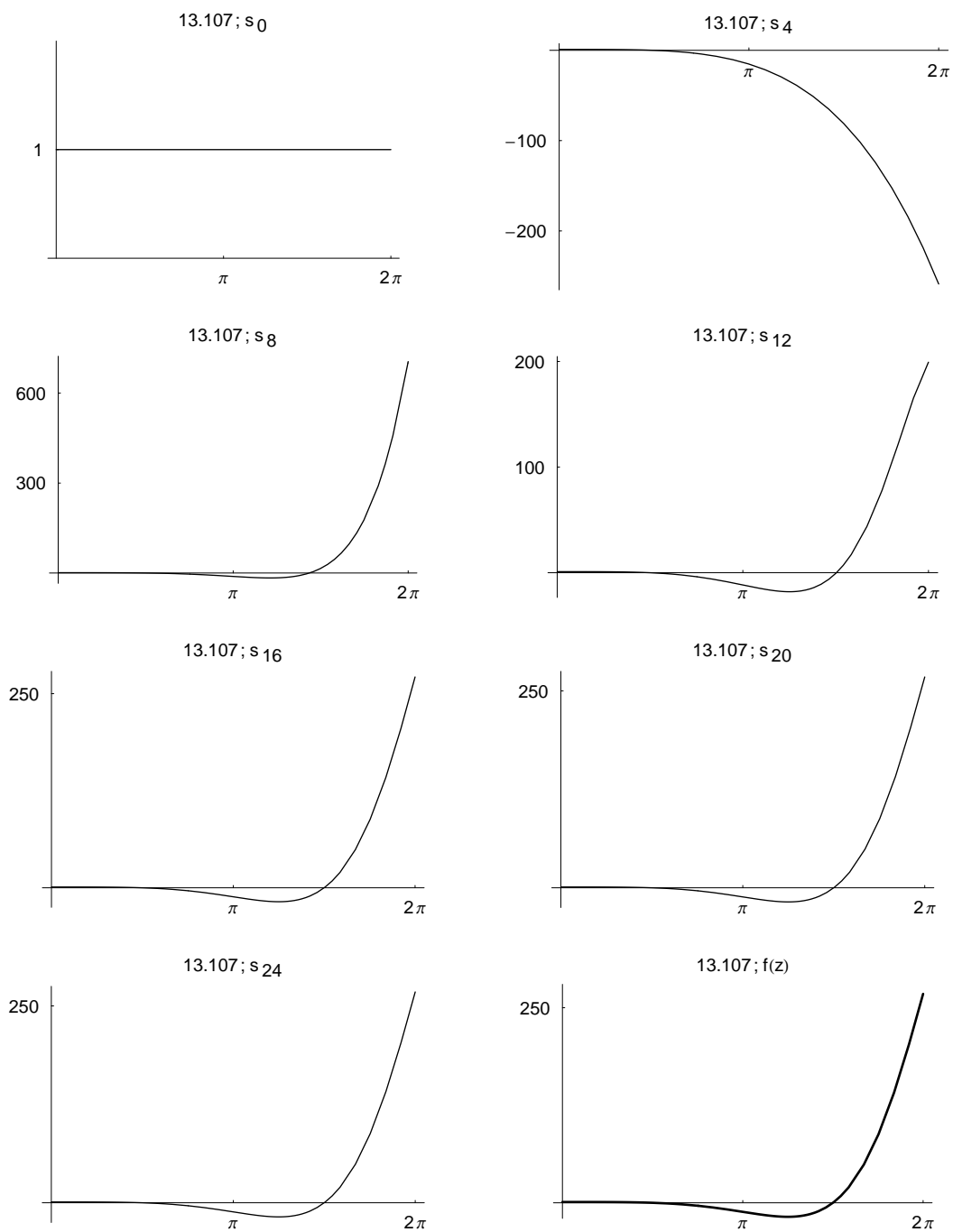
Vlevo grafy členů posloupnosti (a,c,e), vpravo grafy příslušných částečných součtů (b,d,f);
u příkladu 13.96 odpovídají dvojice (a,b), (c,d), (e,f) po řadě hodnotám $\alpha = \frac{1}{2}, 1, \frac{3}{2}$

Cvičení 13.106 na str.79 – poloměr konvergence řady



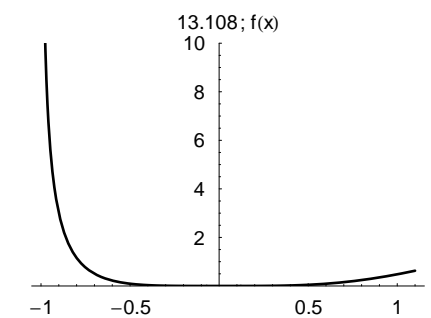
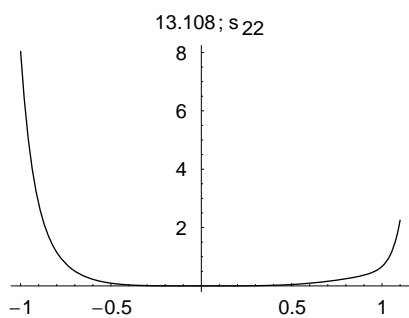
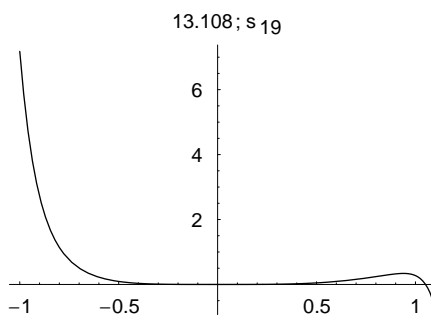
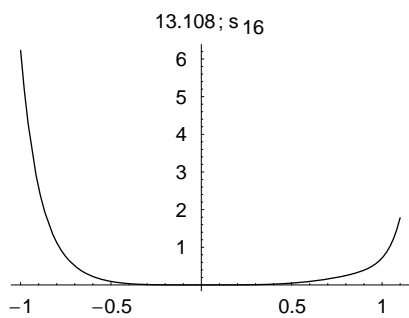
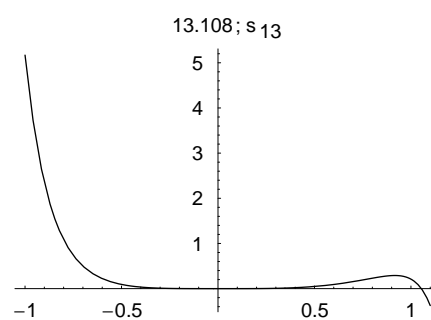
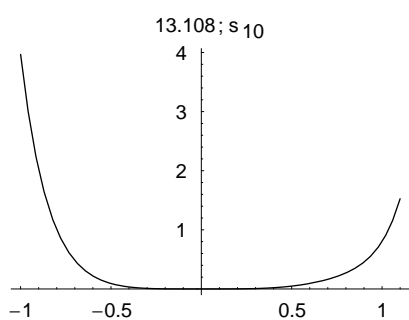
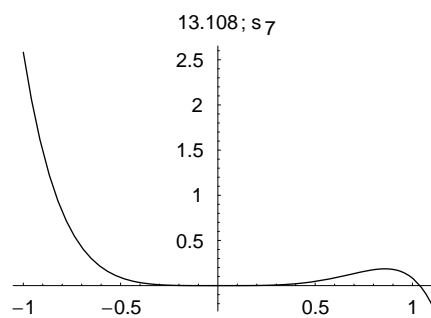
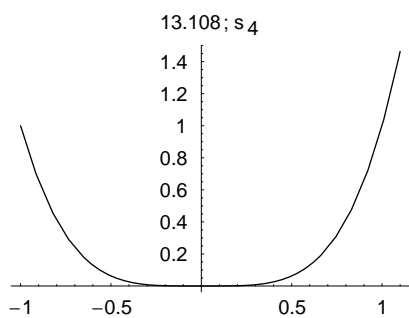
Grafy částečných součtů s_1, s_5, \dots, s_{31} Taylorovy řady funkce $f(z) = \exp z^2 \sin z$ o středu 0; vpravo dole graf funkce f

Cvičení 13.107 na str.79 – poloměr konvergence řady



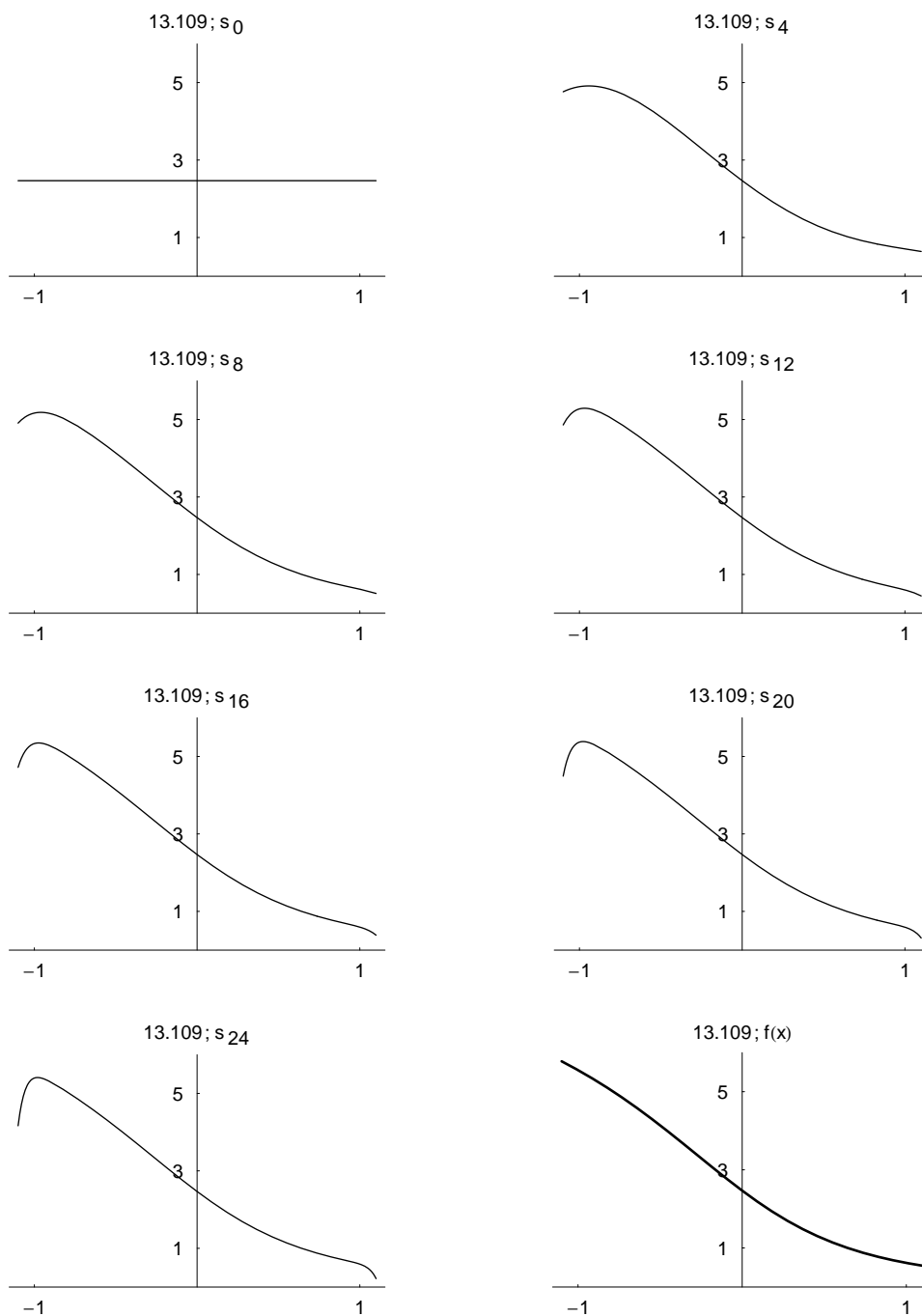
Grafy částečných součtů s_0, s_4, \dots, s_{24} Taylorovy řady funkce $f(z) = \cosh z \cos z$ o středu 0; vpravo dole graf funkce f

Cvičení 13.108 na str.79 – poloměr konvergence řady



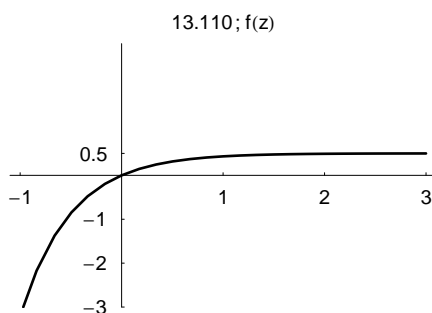
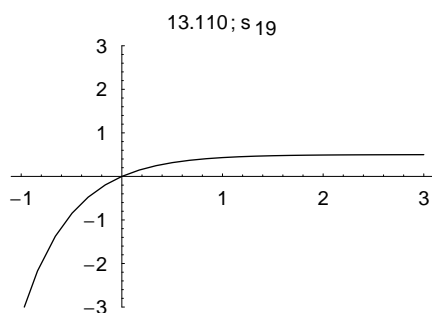
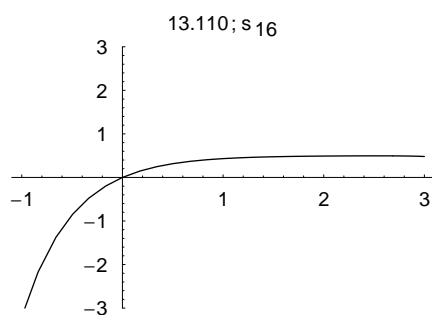
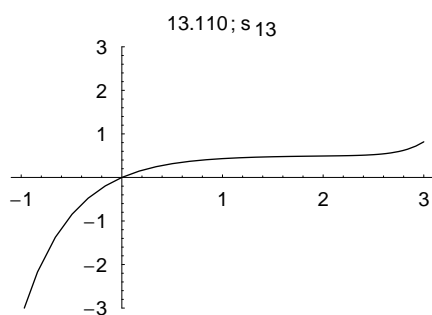
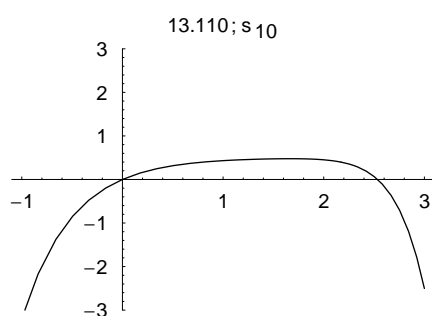
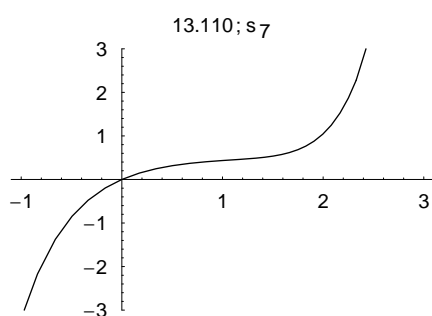
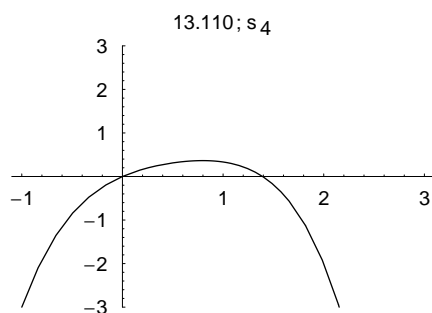
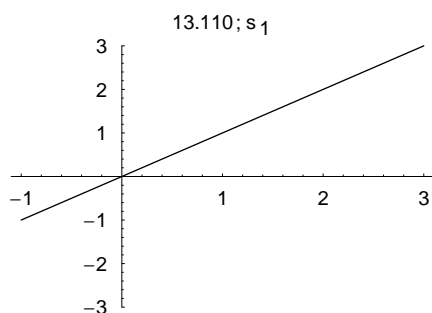
Grafy částečných součtů s_4, s_7, \dots, s_{22} Taylorovy řady funkce $f(x) = \lg(1+x) \lg(1+x^3)$ o středu 0; vpravo dole graf funkce f

Cvičení 13.109 na str.79 – poloměr konvergence řady



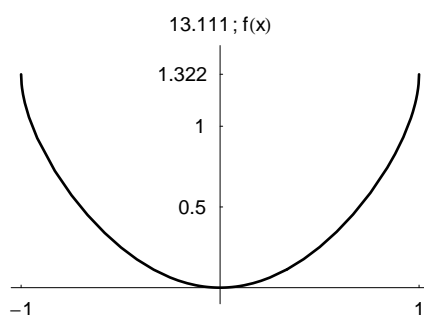
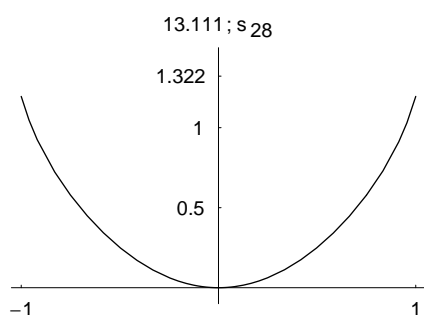
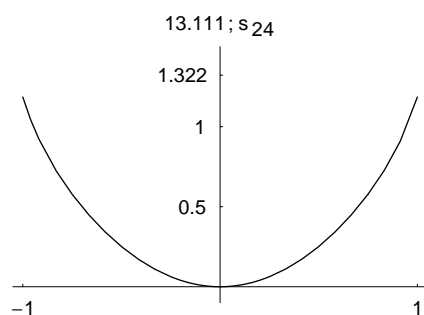
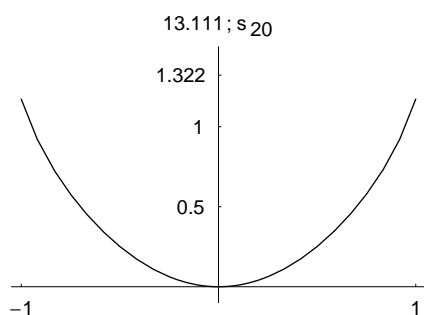
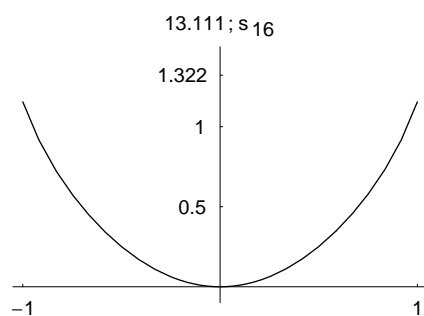
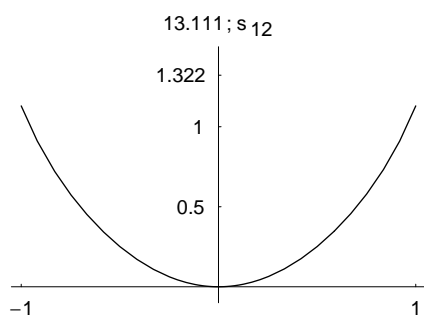
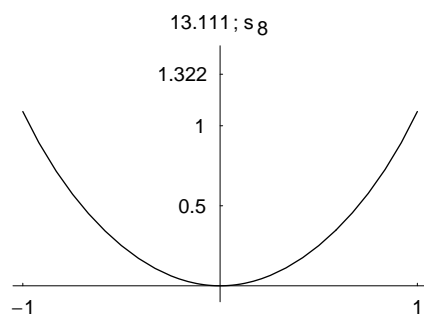
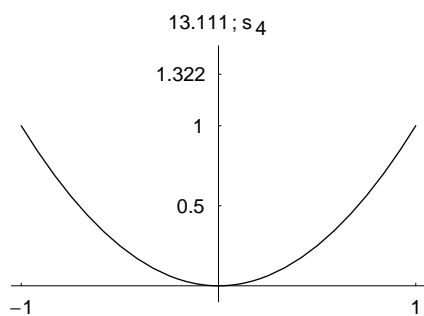
Grafy částečných součtů s_0, s_4, \dots, s_{24} Taylorovy řady funkce $f(x) = \text{arccotg}^2 x$ o středu 0; vpravo dole graf funkce f

Cvičení 13.110 na str.79 – poloměr konvergence řady



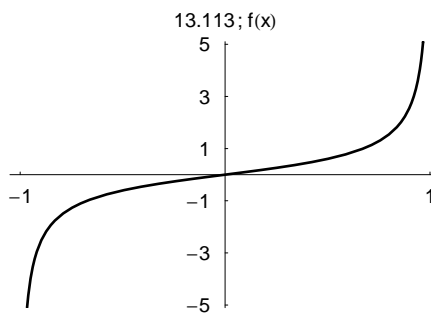
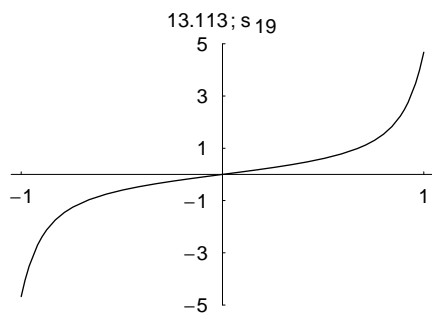
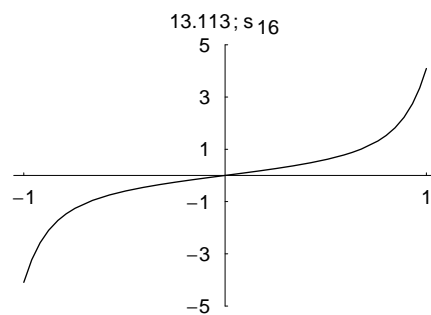
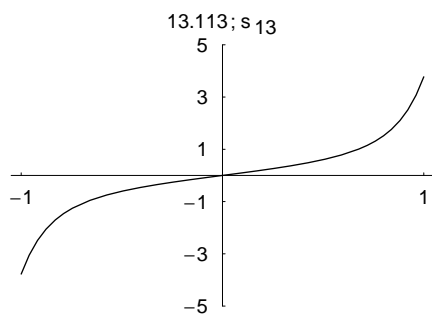
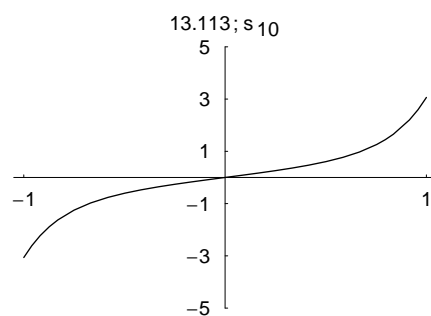
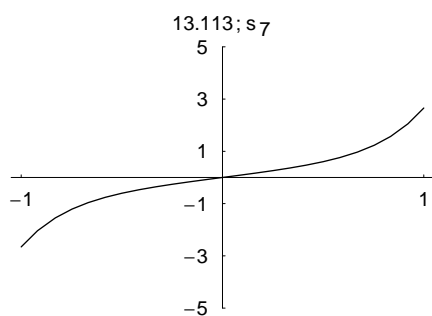
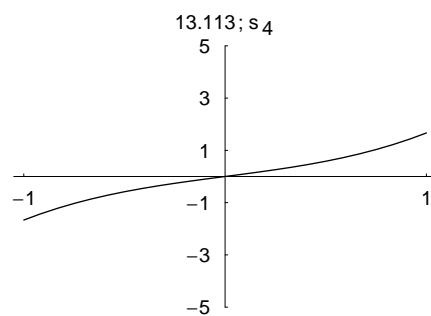
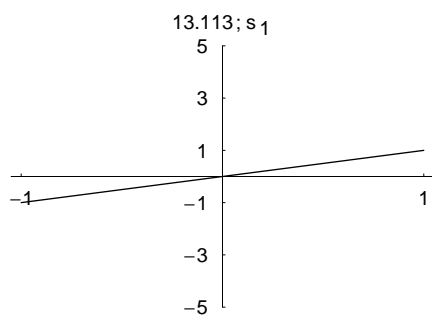
Grafy částečných součtů s_1, s_4, \dots, s_{19} Taylorovy řady funkce $f(z) = e^{-z} \sinh z$ o středu 0; vpravo dole graf funkce f

Cvičení 13.111 na str.79 – poloměr konvergence řady



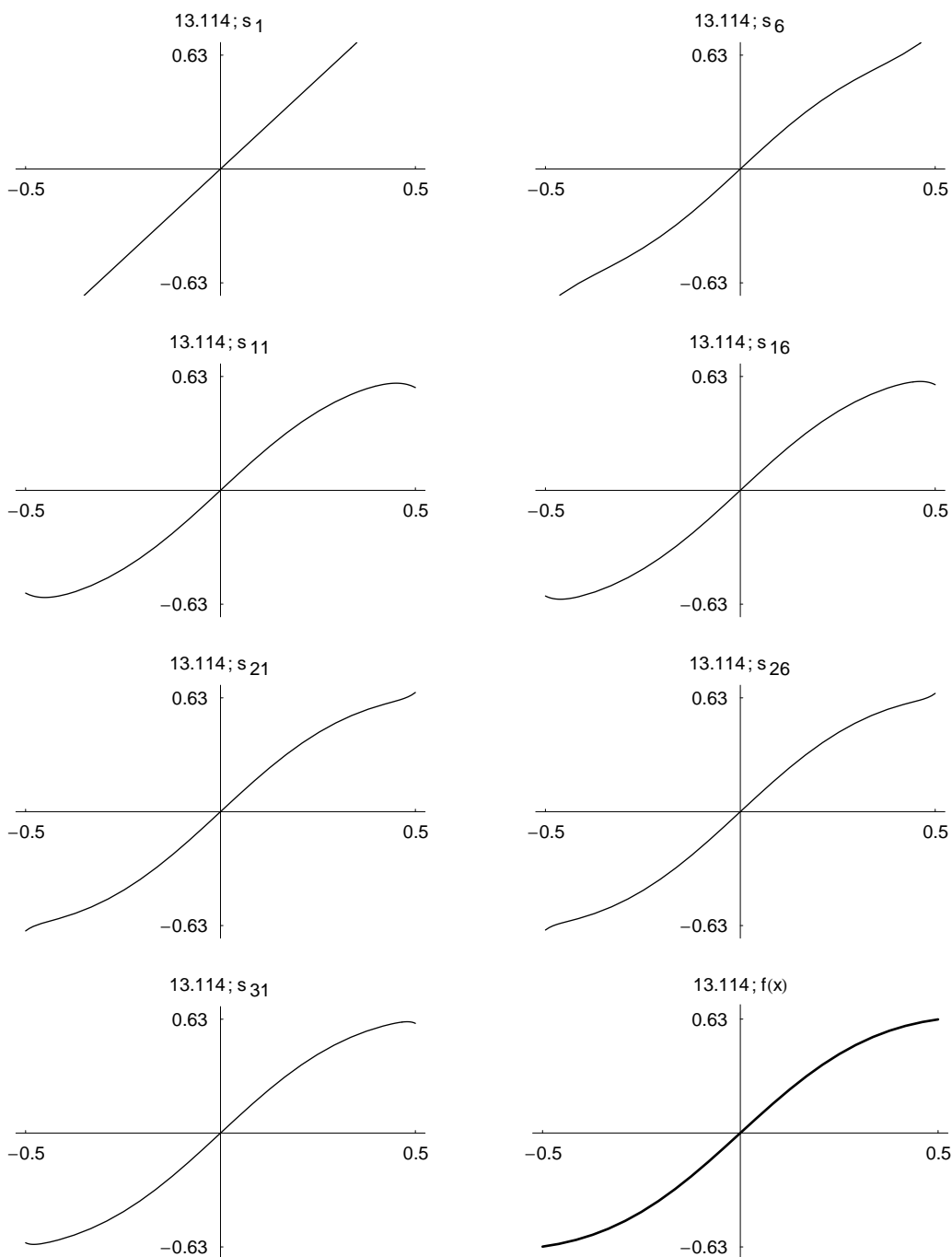
Grafy částečných součtů s_4, s_8, \dots, s_{28} Taylorovy řady funkce $f(x) = \sin x \arcsin x$ o středu 0;
vpravo dole graf funkce f

Cvičení 13.113 na str.79 – poloměr konvergence řady



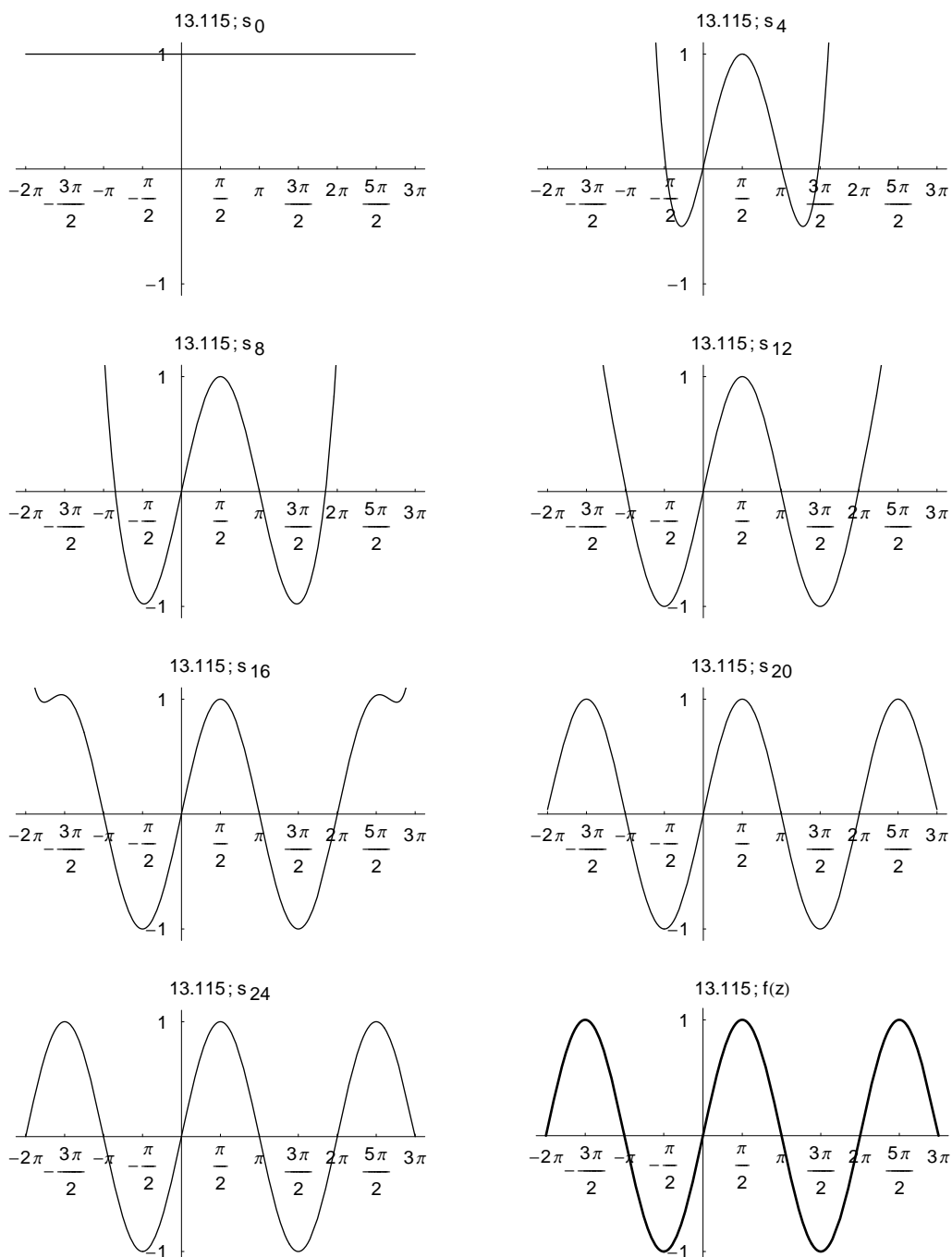
Grafy částečných součtů s_1, s_4, \dots, s_{19} Taylorovy řady funkce $f(x) = \arcsin x / \sqrt{1-x^2}$ o středu 0;
vpravo dole graf funkce f

Cvičení 13.114 na str.79 – poloměr konvergence řady



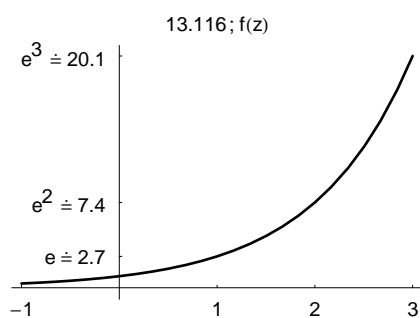
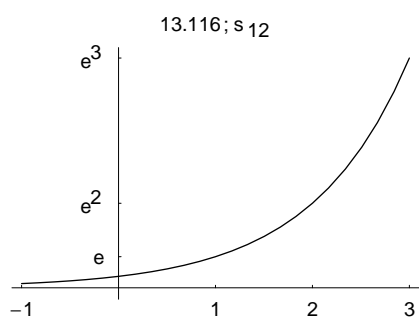
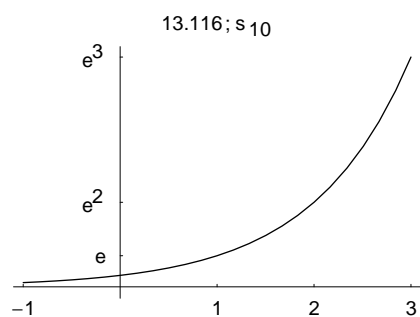
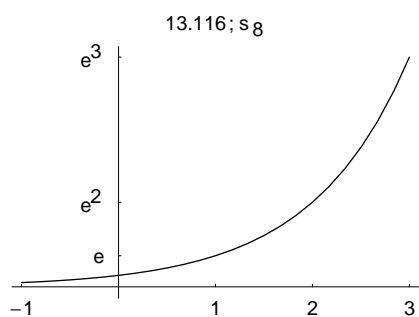
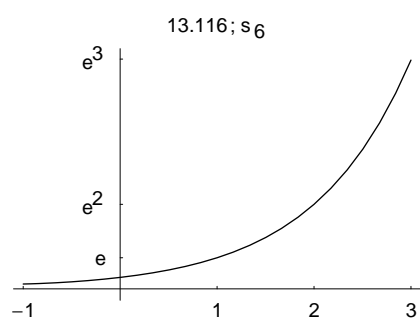
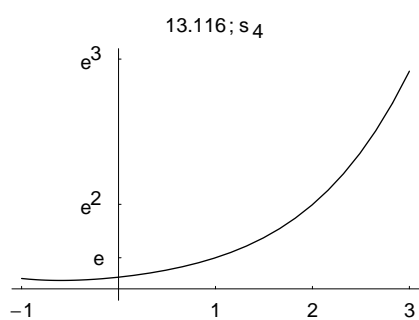
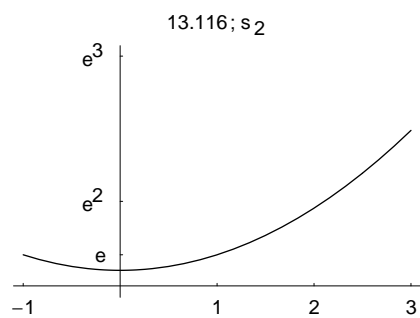
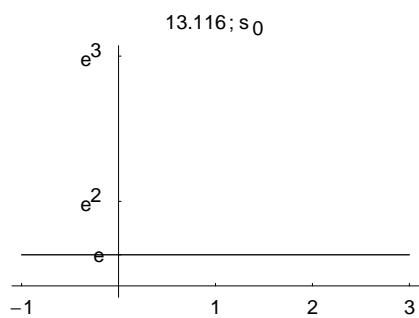
Grafy částečných součtů s_1, s_6, \dots, s_{31} Taylorovy řady funkce $f(x) = \arctg 2x/(1+x^2)$ o středu 0; vpravo dole graf funkce f

Cvičení 13.115 na str. 79 – poloměr konvergence řady



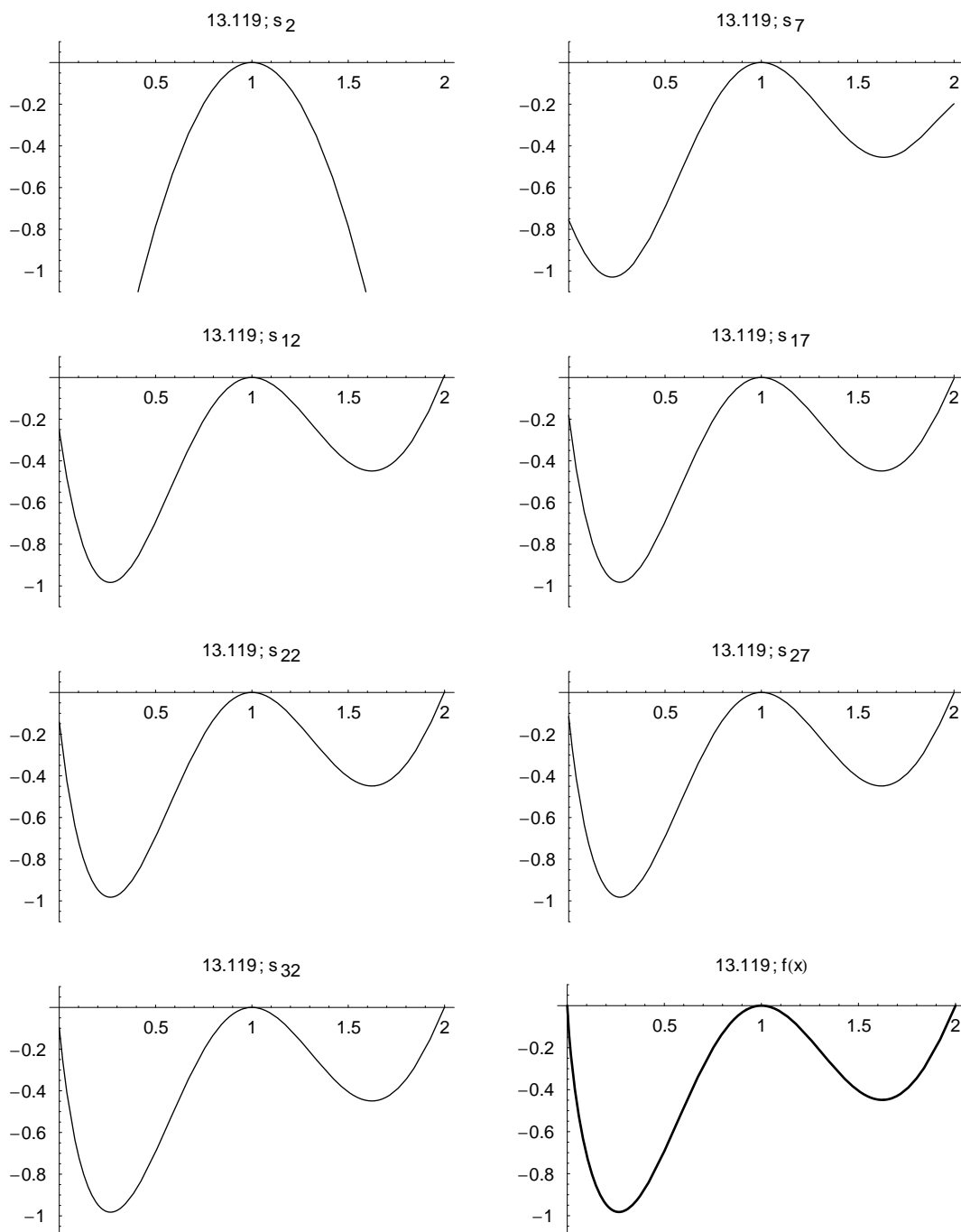
Grafy částečných součtů s_0, s_4, \dots, s_{24} Taylorovy řady funkce $f(z) = \sin z$ o středu $\frac{1}{2}\pi$; vpravo dole graf funkce f

Cvičení 13.116 na str.79 – poloměr konvergence řady



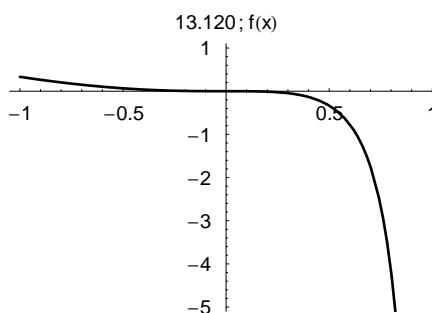
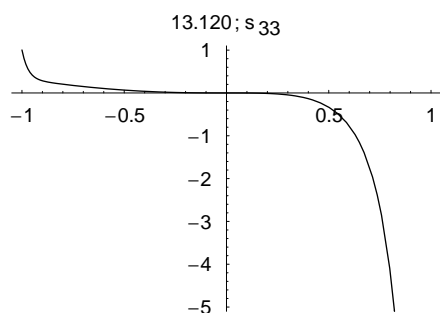
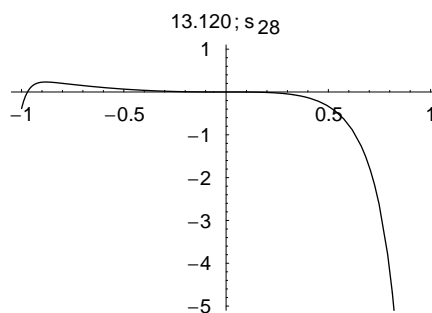
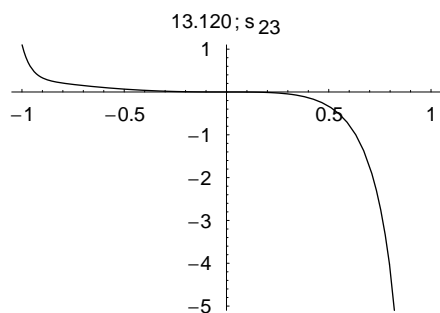
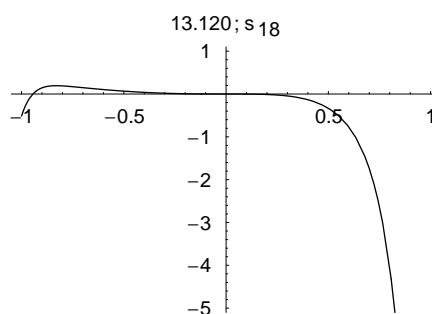
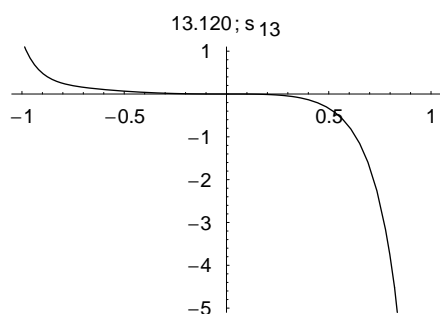
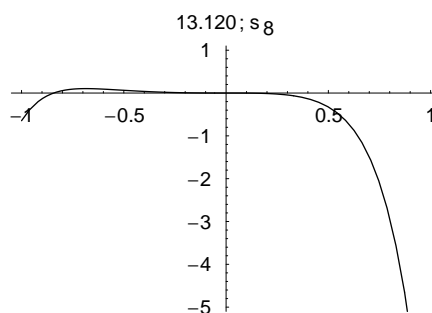
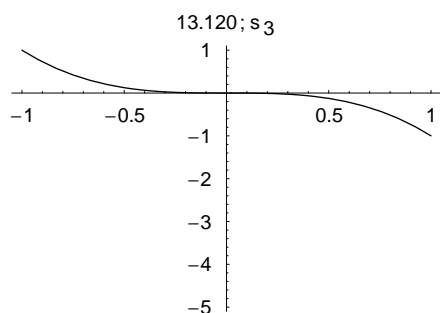
Grafy částečných součtů s_0, s_2, \dots, s_{12} Taylorovy řady funkce $f(z) = e^z$ o středu 1;
vpravo dole graf funkce f

Cvičení 13.119 na str.79 – poloměr konvergence řady



Grafy částečných součtů s_2, s_7, \dots, s_{32} Taylorovy řady funkce $f(x) = \lg x \sin \pi x$ o středu 1; vpravo dole graf funkce f

Cvičení 13.120 na str.79 – poloměr konvergence řady



Grafy částečných součtů s_3, s_8, \dots, s_{33} Taylorovy řady funkce $f(x) = \lg^3(1-x)$ o středu 0; vpravo dole graf funkce f