

Integrace s pomoci substituce:

```
> with(student):
```

```
> f:=x->2*x*exp(x^2);
```

$$f := x \rightarrow 2 x e^{(x^2)}$$

```
> a:=0: b:=1:
```

```
> zadani:=Int(f(x), x=a..b);
```

$$zadani := \int_0^1 2 x e^{(x^2)} dx$$

```
> substitute:=changevar(x^2=u, zadani);
```

$$substitute := \int_0^1 e^u du$$

```
> vysledek:=eval(substitute);
```

$$vysledek := \int_0^1 e^u du$$

```
> vysledek:=evalf(substitute);
```

$$vysledek := 1.718281828$$

```
>
```

```
>
```

```
> int(exp(x), x=a..b);
```

$$-1 + e$$

```
>
```

```
> Credit:= "I&C, p. 117" ;
```

$$Credit := "I&C, p. 117"$$

```
>
```

```
>
```