

```
> restart;
```

```
> int((x^3+x^2)*(x+3),x=0..1);
```

$$\frac{11}{5}$$

```
> int(x*exp(2*x),x=0..1);
```

$$\frac{1}{4} e^2 + \frac{1}{4}$$

```
> I1:=int(1/(3+x^2),x=-1..1);
```

$$I1 := \frac{1}{9} \pi \sqrt{3}$$

```
> I1;
```

$$\frac{1}{9} \pi \sqrt{3}$$

```
> simplify(I1);
```

$$\frac{1}{9} \pi \sqrt{3}$$

```
> Digits:=50;
```

Digits:= 50

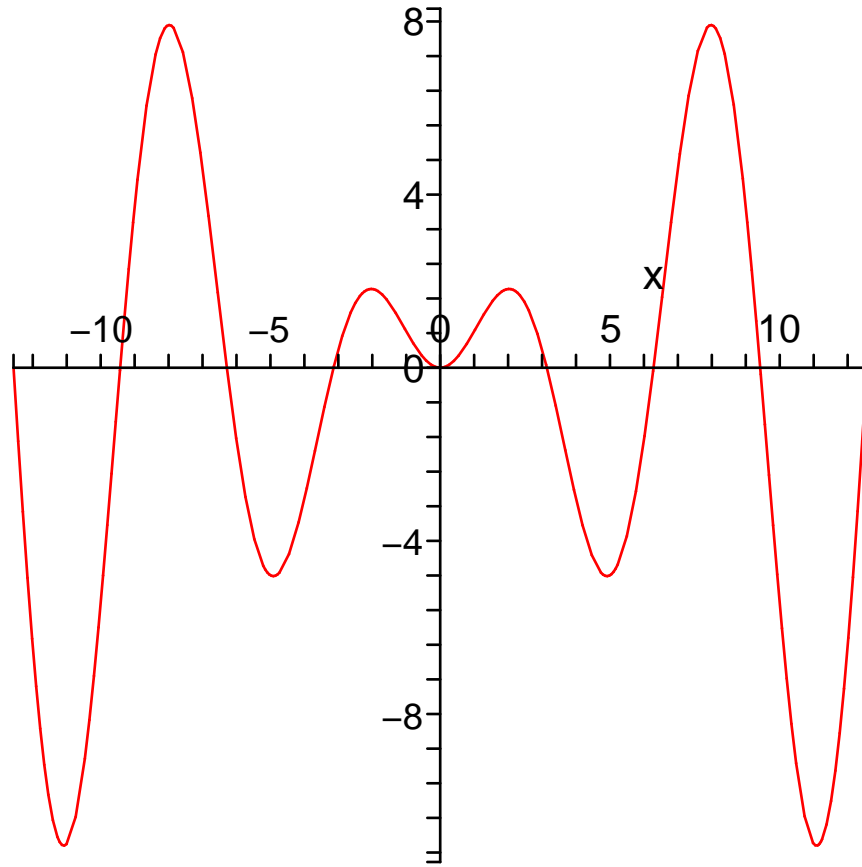
```
> evalf(I1);
```

0.60459978807807261686469275254738524409468874936425

```
> Digits:=10;
```

Digits:= 10

```
> plot(x*sin(x),x=-4*Pi..4*Pi);
```



```
> y:=x*sin(x);
```

```
y := x sin(x)
```

```
> dy:=diff(y,x);
```

```
dy := sin(x) + x cos(x)
```

```
> solve(dy=0);
```

```
RootOf(tan(_Z) + _Z)
```

```
> fsolve(dy=0,x=10);
```

```
11.08553841
```

```
>
```