```
> restart;
> f:=sin(x^2);
```

$$f := \sin(x^2) \tag{1}$$

```
> S1:=series(f,x=0,12);
```

$$S1 := x^2 - \frac{1}{6}\,x^6 + \frac{1}{120}\,x^{10} + \mathrm{O}(x^{14}) \tag{2}$$

```
> P:=convert(S1,polynom);
```

$$P := x^2 - \frac{1}{6}\,x^6 + \frac{1}{120}\,x^{10} \tag{3}$$

```
> A1:=subs(x=1/2,f);
```

$$A1 := \sin\left(\frac{1}{4}\right) \tag{4}$$

```
> A2:=subs(x=1/2,P);
```

$$A2 := \frac{30401}{122880} \tag{5}$$

```
> evalf(A1);
```

$$0.2474039593 \tag{6}$$

```
> evalf(A2);
```

$$0.2474039714 \tag{7}$$

```
>
```