```
> f := exp
```

$$f := \exp \tag{1}$$

```
> T2f := unapply(convert(taylor(f(x), x = 0, 3), polynom), x)
```

$$T2f := x \to 1 + x + \frac{1}{2} x^2 \tag{2}$$

```
> T3f := unapply(convert(taylor(f(x), x = 0, 4), polynom), x)
```

$$T3f := x \to 1 + x + \frac{1}{2} x^2 + \frac{1}{6} x^3 \tag{3}$$

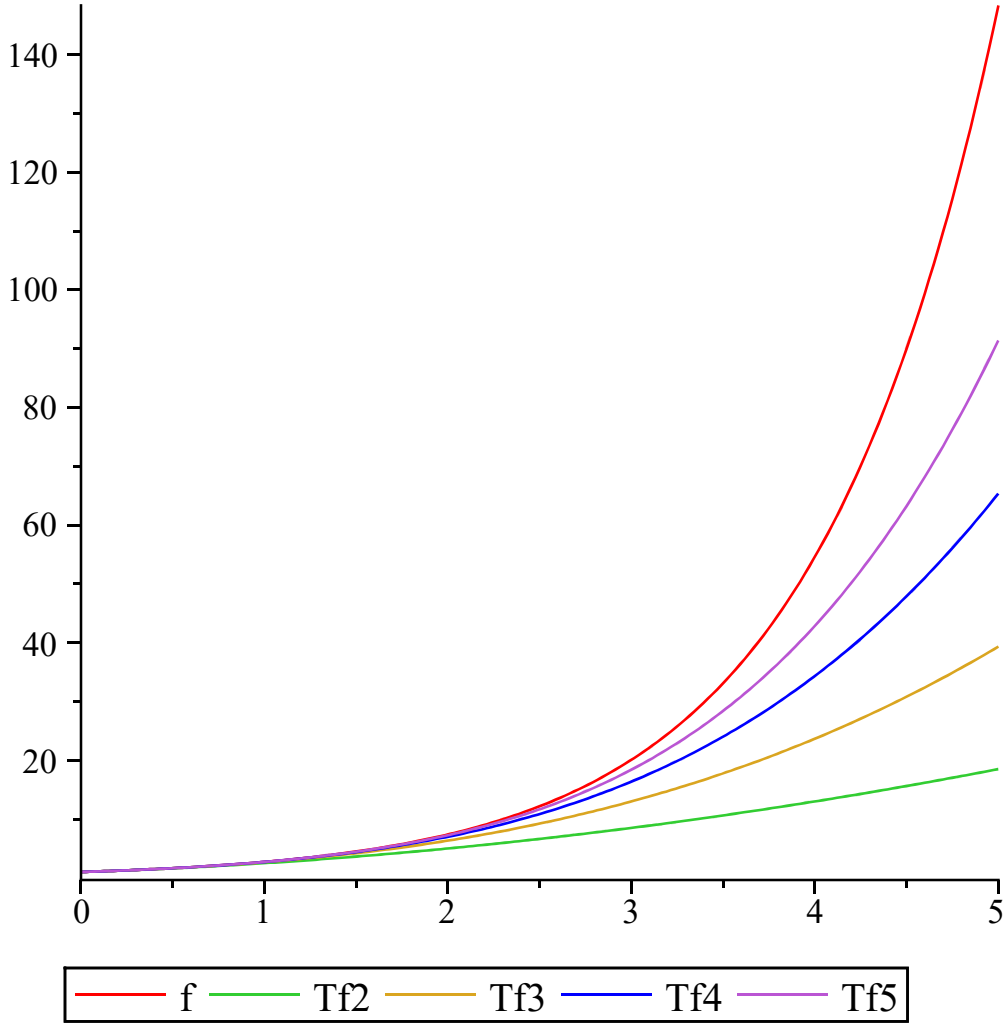
```
> T4f := unapply(convert(taylor(f(x), x = 0, 5), polynom), x)
```

$$T4f := x \to 1 + x + \frac{1}{2} x^2 + \frac{1}{6} x^3 + \frac{1}{24} x^4 \tag{4}$$

```
> T5f := unapply(convert(taylor(f(x), x = 0, 6), polynom), x)
```

$$T5f := x \to 1 + x + \frac{1}{2} x^2 + \frac{1}{6} x^3 + \frac{1}{24} x^4 + \frac{1}{120} x^5 \tag{5}$$

```
> plot([f, T2f, T3f, T4f, T5f], 0..5, legend = ["f", "Tf2", "Tf3", "Tf4", "Tf5"])
```




```
> g := x → ln(1 + x)
```

$$g := x \to \ln(1 + x) \tag{6}$$

```
> T2g := unapply(convert(taylor(g(x), x = 0, 3), polynom), x)
```

$$T2g := x \to x - \frac{1}{2} x^2 \tag{7}$$

> $T3g := unapply(convert(taylor(g(x), x = 0, 4), polynom), x)$

$$T3g := x \to x - \frac{1}{2} x^2 + \frac{1}{3} x^3 \tag{8}$$

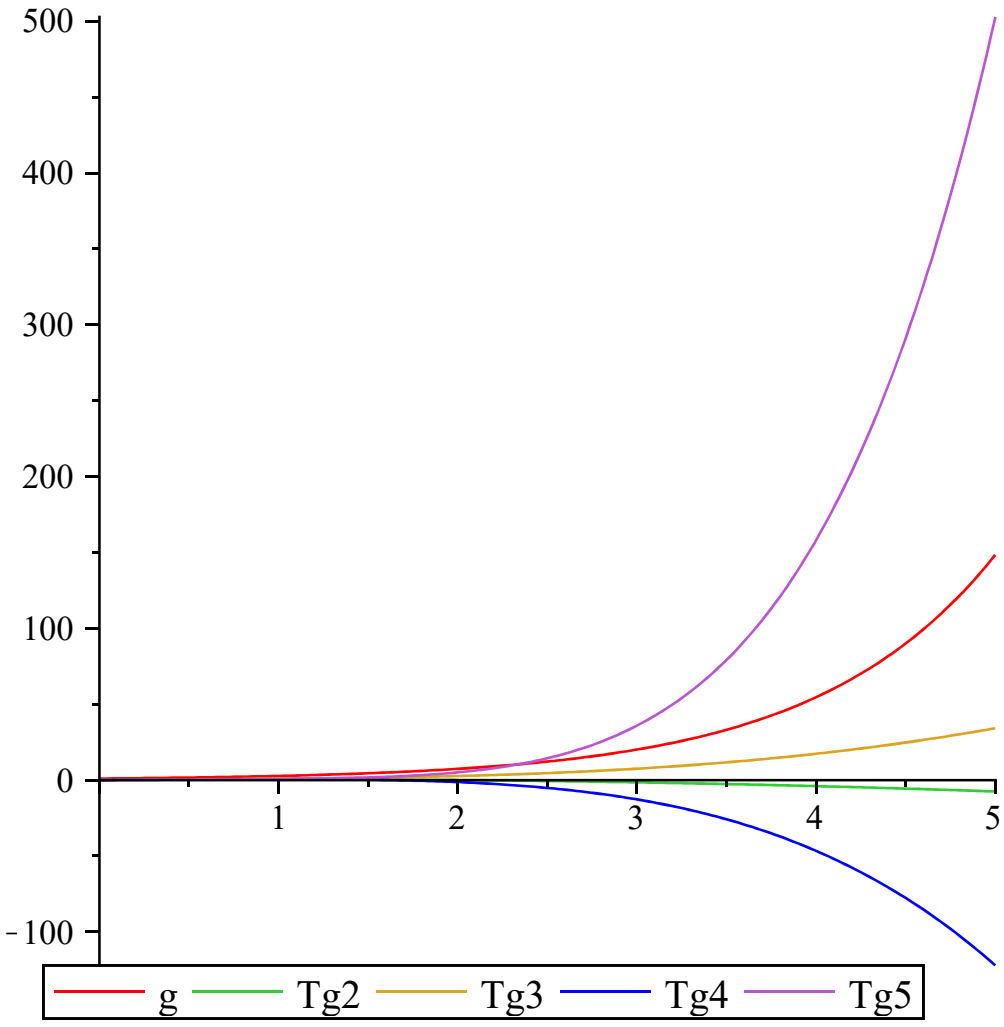
> $T4g := unapply(convert(taylor(g(x), x = 0, 5), polynom), x)$

$$T4g := x \to x - \frac{1}{2} x^2 + \frac{1}{3} x^3 - \frac{1}{4} x^4 \tag{9}$$

> $T5g := unapply(convert(taylor(g(x), x = 0, 6), polynom), x)$

$$T5g := x \to x - \frac{1}{2} x^2 + \frac{1}{3} x^3 - \frac{1}{4} x^4 + \frac{1}{5} x^5 \tag{10}$$

> $plot([f, T2g, T3g, T4g, T5g], 0..5, legend = ["g", "Tg2", "Tg3", "Tg4", "Tg5"])$



>