

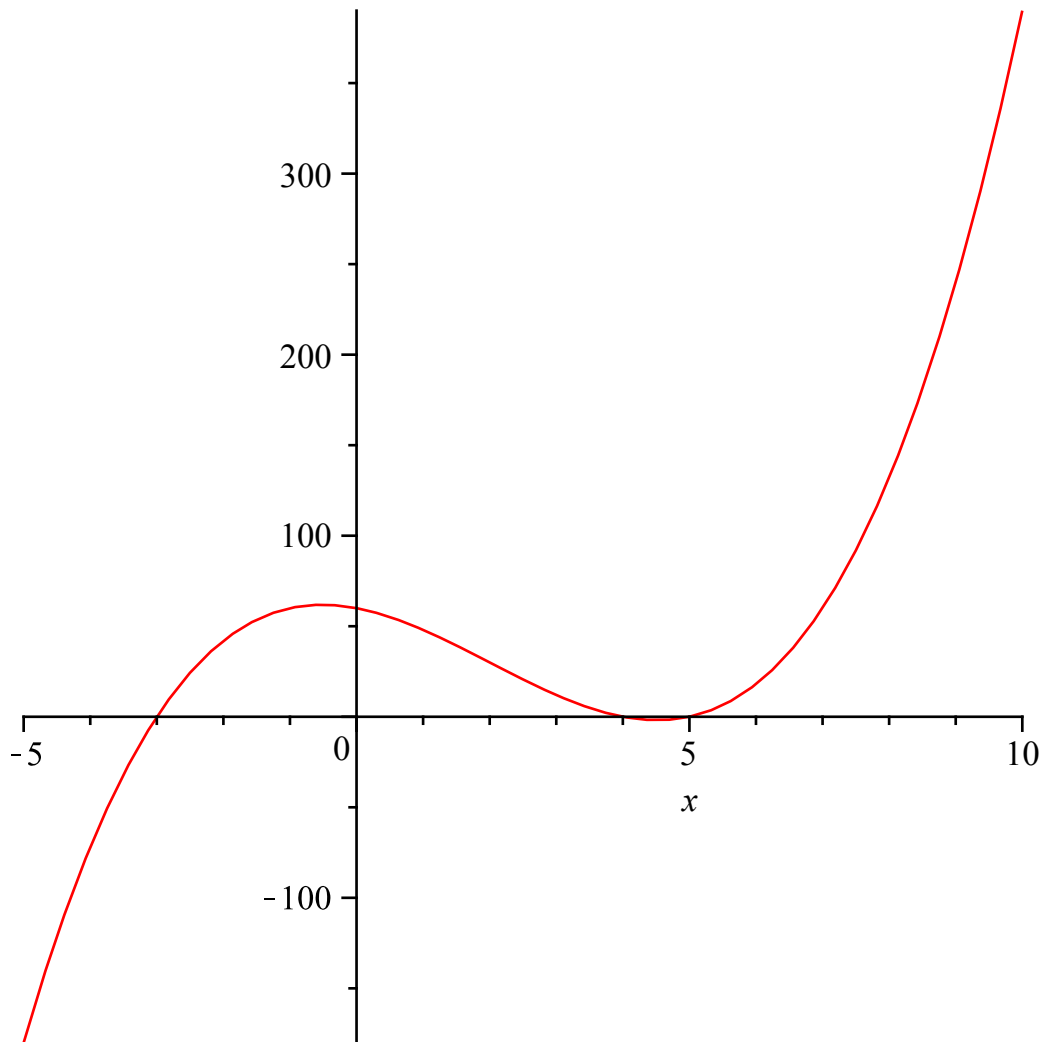
```
> restart
```

```
> Ecuacion := x3 - 6·x2 - 7·x + 60 = 0
```

$Ecuacion := x^3 - 6x^2 - 7x + 60 = 0$

(1)

```
> plot(lhs(Ecuacion), x=-5..10)
```



```
> Solucion := solve(Ecuacion)
```

$Solucion := 5, -3, 4$

(2)

```
> restart
```

```
> Ecuacion := diff(y(x), x) = 0
```

$Ecuacion := \frac{d}{dx} y(x) = 0$

(3)

```
> SolucionGeneral := dsolve(Ecuacion)
```

$SolucionGeneral := y(x) = \_C1$

(4)

```
> restart
```

```
> Ecuacion := diff(y(x), x$2) = 0
```

$Ecuacion := \frac{d^2}{dx^2} y(x) = 0$

(5)

```
> SolucionGeneral := dsolve(Ecuacion)
```

(6)

$$\text{SolucionGeneral} := y(x) = \_C1 x + \_C2 \quad (6)$$

> restart

> Ecuacion := diff(y(x), x\$4) - diff(y(x), x\$3) = 0

$$\text{Ecuacion} := \frac{d^4}{dx^4} y(x) - \left( \frac{d^3}{dx^3} y(x) \right) = 0 \quad (7)$$

> SolucionGeneral := dsolve(Ecuacion)

$$\text{SolucionGeneral} := y(x) = \_C1 + \_C2 x + \_C3 x^2 + \_C4 e^x \quad (8)$$

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