

```

> restart
> f11 := p → 9.50911307067844964490744883772 - 1.59345896742049960545272093080 p
      + 0.0843458967420499605452720930796 p2
f11 := p → 9.50911307067844964490744883772 + (-1) (1)
      · 1.59345896742049960545272093080 p + 0.0843458967420499605452720930796 p2

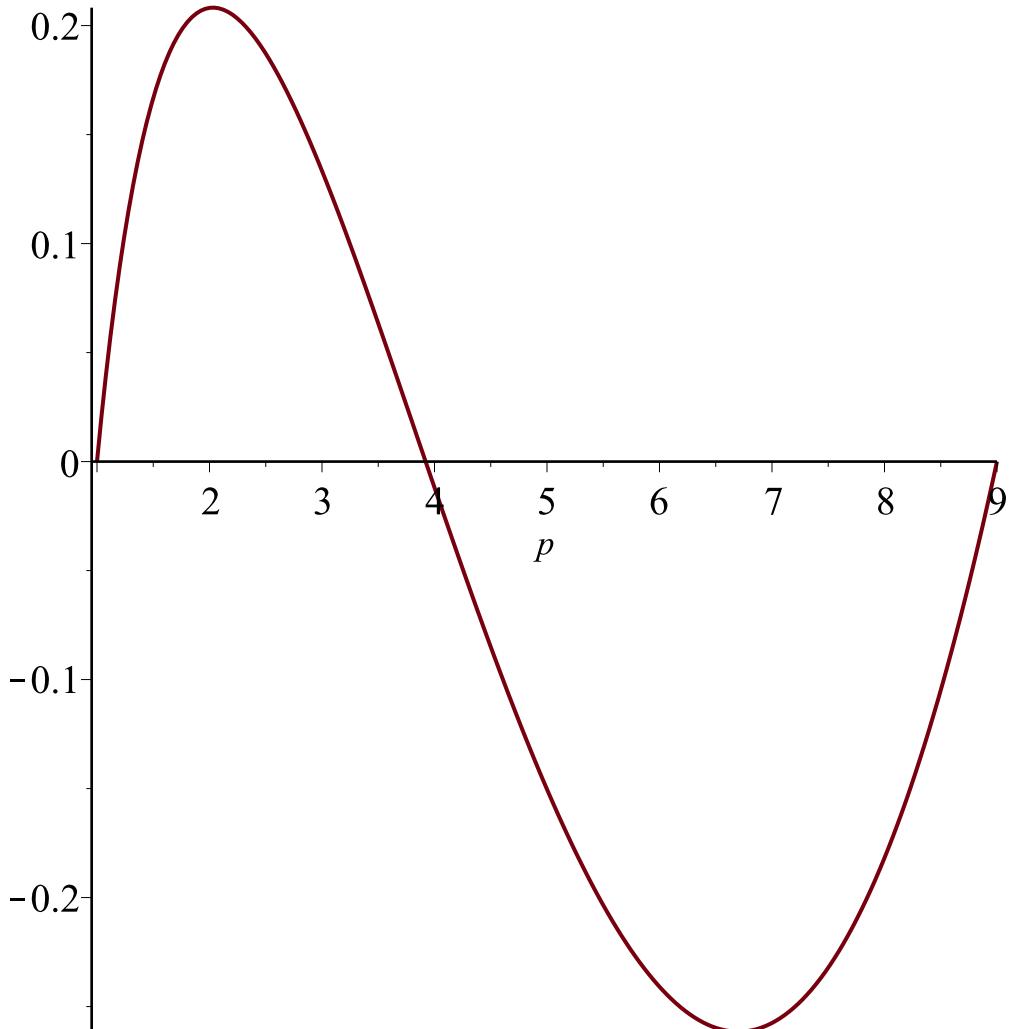
```

```

> q := p → 9.25591706394346908638624590622 e-0.1 ln(p) - 0.145821487923283585069426899441 p
q := p (2)
      → 9.25591706394346908638624590622 e(-1) · 0.1 ln(p) + (-1) · 0.145821487923283585069426899441 p

```

```
> plot(f11(p) - q(p), p = 1 .. 9)
```



```

> pe := solve(diff(f11(p) - q(p), p) = 0, p) assuming 1 < p < 9
      # Only 1 point was returned, while shall be two from above graph, I also tried the abs()
      pe := 2.030837315 (3)

```

```

> allvalues(pe) # Only one point returned...
      2.030837315 (4)

```

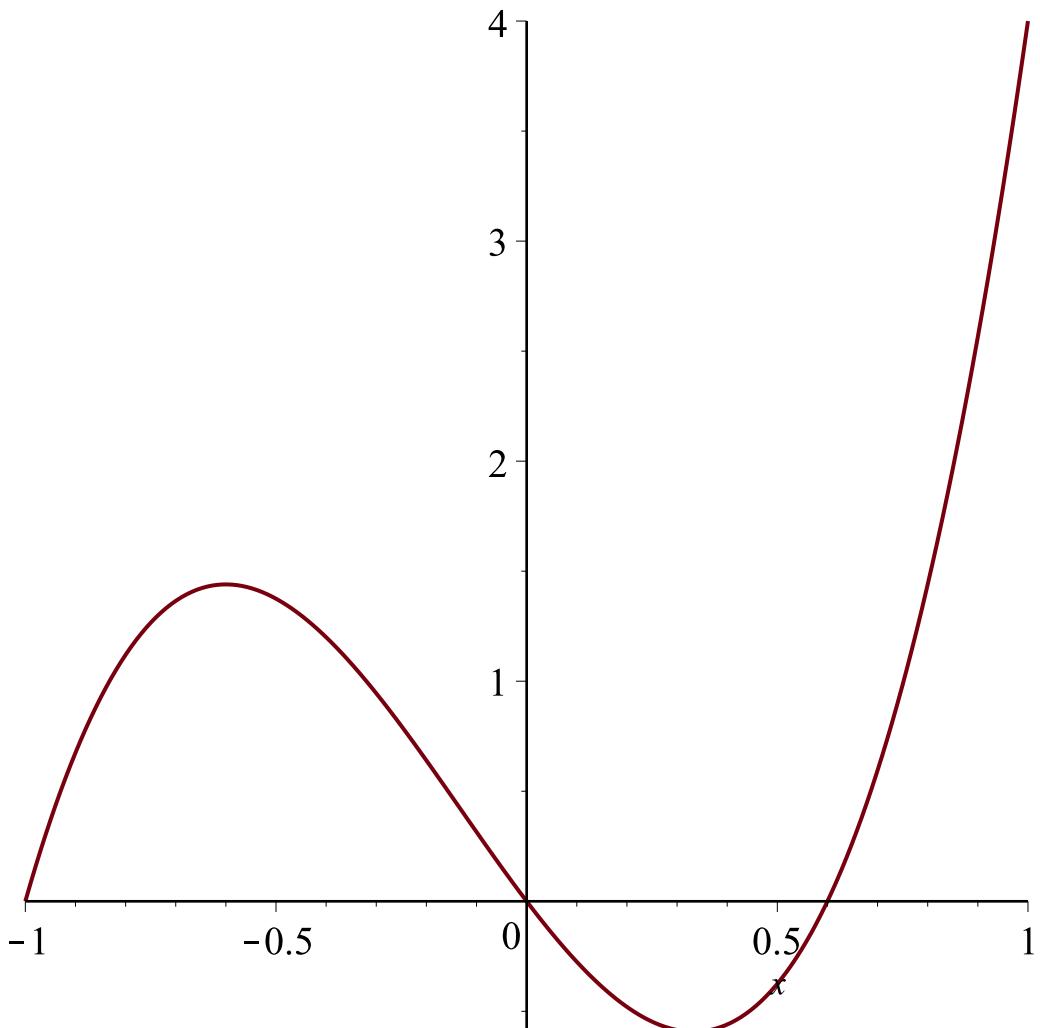
```
> ?solve
```

```
> y := x → 5 x3 + 2 x2 - 3 x
```

(5)

$$y := x \rightarrow 5x^3 + 2x^2 - 3x \quad (5)$$

> $\text{plot}(y(x), x = -1..1)$



> $\text{solve}(\text{diff}(y(x), x) = 0, x) \quad \# \text{this is a correct return on simple function}$

$$\frac{1}{3}, -\frac{3}{5}$$

(6)