$f := x \to x^3 - 6 \cdot x^2 - 15 \cdot x + 4$

$$f := x \mapsto x^3 - 6 \cdot x^2 - 15 \cdot x + 4 \quad \textbf{(1)}$$

$fp := \mathrm{D}(f)$

$$fp := x \mapsto 3 \cdot x^2 - 12 \cdot x - 15 \quad \textbf{(2)}$$

$solve(fp(x) = 0)$

$$5, \ -1 \quad \textbf{(3)}$$

$f(5)$

$$6 \cos(5)^2 - 12 \sin(5) \quad \textbf{(4)}$$

$f(-1)$

$$6 \cos(1)^2 + 12 \sin(1) \quad \textbf{(5)}$$

Next one:

$f := x \to 6 \cdot \cos(x)^2 - 12 \cdot \sin(x)$

$$f := x \mapsto 6 \cdot \cos(x)^2 - 12 \cdot \sin(x) \quad \textbf{(6)}$$

$fp := \mathrm{D}(f)$

$$fp := x \mapsto -12 \cdot \cos(x) \cdot \sin(x) - 12 \cdot \cos(x) \quad \textbf{(7)}$$

$factor(fp(x))$

$$-12 \cos(x) \ (\sin(x) + 1) \quad \textbf{(8)}$$

$solve(fp(x) = 0)$

$$-\frac{\pi}{2}, \ \frac{\pi}{2} \quad \textbf{(9)}$$

$f\left(-\frac{\mathrm{Pi}}{2}\right)$

$$12 \quad \textbf{(10)}$$

$f\left(\frac{3 \cdot \mathrm{Pi}}{2}\right)$

$$12 \quad \textbf{(11)}$$

$fpp := \mathrm{D}(fp)$

$$fpp := x \mapsto 12 \cdot \sin(x)^2 - 12 \cdot \cos(x)^2 + 12 \cdot \sin(x) \quad \textbf{(12)}$$

$solve(fpp(x) = 0)$

$$-\frac{\pi}{2}, \ \frac{\pi}{6}, \ \frac{5\,\pi}{6} \quad \textbf{(13)}$$

$fpp(x)$

$$12 \sin(x)^2 - 12 \cos(x)^2 + 12 \sin(x) \quad \textbf{(14)}$$

$evalf\left(f\left(\frac{\mathrm{Pi}}{12}\right)\right)$

$$2.492247670 \quad \textbf{(15)}$$

$$evalf\left(f\left(\frac{\mathrm{Pi}}{2}\right)\right)$$

$$-12. \tag{16}$$

$$evalf\left(f\left(\mathrm{Pi}\right)\right)$$

$$6. \tag{17}$$

$$evalf\left(f\left(\frac{7\cdot\mathrm{Pi}}{4}\right)\right)$$

$$11.48528137 \tag{18}$$