


$$1) f(x) = 2x^2 - 8x - 3 \quad I = \mathbb{R}$$

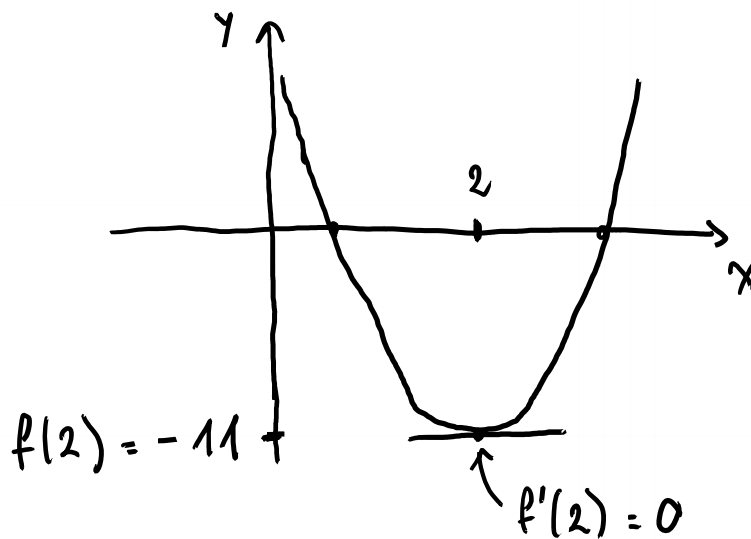
$$f'(x) = 2 \times 2x - 8 + 0 = 4x - 8$$

Signe de f' : $4x - 8 > 0 \Leftrightarrow 4x > 8 \Leftrightarrow x > 2$

Tableau de variations:

x	$-\infty$	2	$+\infty$
f'	-	\emptyset	+
f			

$$f(2) = 2 \times 2^2 - 8 \times 2 - 3 = 8 - 16 - 3 = -11$$



-11 est le minimum de f atteint en 2.

En générale:

Minimum si:

x	x_m
f'	- \emptyset +



Maximum si:

x	x_M
f'	+ \emptyset -

