1.
$$I = R$$
 $f(x) = 2x^2 - 8x - 3$

$$f'(x) = 4x - 8$$

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Tableau de variations de f:

$$\lim_{x\to -\infty} f(x) = \lim_{x\to -\infty} 2x^2 = +\infty$$

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

$$\lim_{x\to+\infty} f(x) = \lim_{x\to+\infty} 2x^2 = +\infty$$