

Exercice: Dresser le tableau de variations de  $f$  sur  $I$ .

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

$$2) f(x) = -x^2 + 3x + 5 \quad I = \mathbb{R}$$

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

$$4) f(x) = \frac{1}{3}x^3 - x \quad I = \mathbb{R}$$

$$5) f(x) = 3x^2 - 3x^3 \quad I = \mathbb{R}$$

$$6) f(x) = 45x^2 - x^3 \quad I = [0; 40]$$

$$7) f(x) = x^3 - 24x^2 + 144x \quad I = [0; 12]$$