3.
$$f'(x) = 3x^2 - 3$$

Signe de
$$f'(x)$$
: $3x^2-3$ $\alpha=3$ $b=0$ $c=-3$

$$\Delta = 0^2 - 4 \times 3 \times (-3) = 36$$

$$x_1 = \frac{0-6}{6} = -1$$
 $x_2 = \frac{0+6}{6} = 1$

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$$\lim_{x\to -\infty} f(x) = -\infty$$
 $f(-1) = -1 + 3 + 1 = 3$

$$f(1) = 1-3+1 = -1$$
 lim $f(x) = +\infty$