

$$x^3 - 3x = -1$$

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

$$x = 1, -1$$

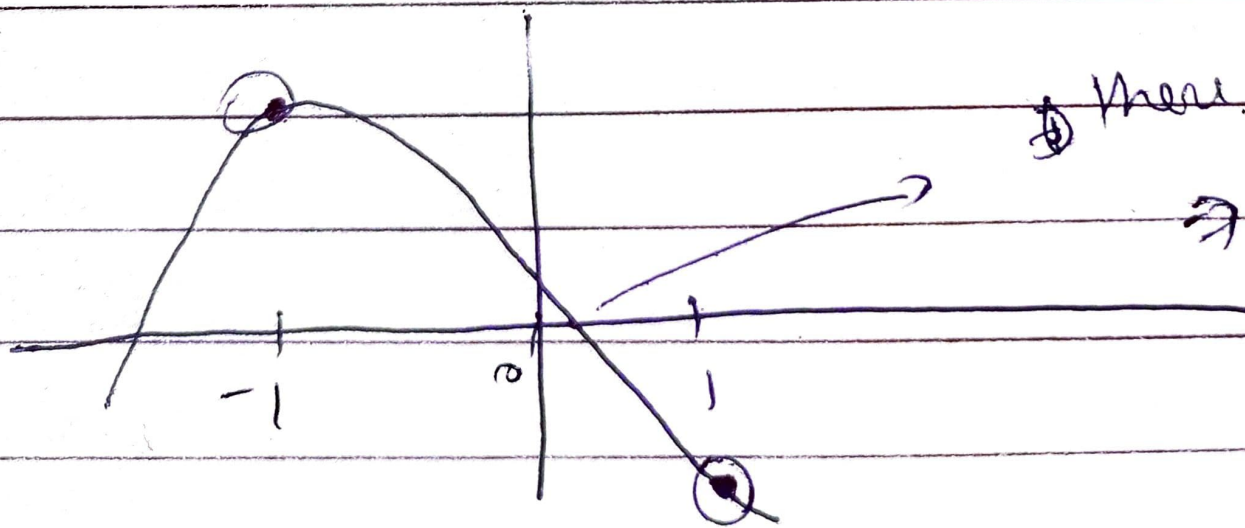
$$f''(x) = 6x$$

$$f''(1) = 6 > 0$$

$$f''(-1) < 0$$

minima at 1

maxima at -1



There can exist only one root in $(0, \infty)$
 $\Rightarrow 1 \notin \mathbb{R}$