

- ① If, $f(x_1) < f(x_2)$ | ② If $x_1 < x_2$
 then $x_1 > x_2$ | then $f(x_1) > f(x_2)$

For increasing function

$$f'(x) \geq 0$$

NOTE → The point at which $f'(x) = 0$ will be given a separate thought.

(Check neighbouring continuous points)

Let:

$$f(x) = x^3$$

$$f'(x) = 3x^2 \geq 0$$

$$[f'(x) \geq 0]$$

