

Max Min

$$y = x^3 - 3x - 2$$

$$y(x=-1) = -1 - 3(-1) - 2 = 0$$

$$x^3 - 3x - 2 = (x+1)(x^2 - x - 2) = 0$$

$$= (x+1)(x-2)(x+1) = 0$$

$$= (x+1)^2(x-2) = 0$$

$$x = -1$$

$$x = 2$$

$$B(-1,0)$$

$$C(2,0)$$

$$y = x^3 - 3x - 2$$

$$y' = 3x^2 - 3 = 0$$

Extreme Points

$$3x^2 = 3$$

$$x^2 = 1$$

$$x = -1$$

$$x = 1$$

$$(-1,0)$$

$$(1,-4)$$

