P 1734 m 106

$$y = \sqrt[3]{x^2} - x$$

CE YAER PARIODISMAN NO

LIMITI

 $x \to -\infty$  NO As GR22.

 $x \to +\infty$  NO As GR22.

 $x \to +\infty$  NO As GR22.

THERSEPHON

 $y = 0$   $\sqrt[3]{x^2} - x = 0$   $\sqrt[3]{x^2} - x = 0$   $\sqrt[3]{x^2} - x \to x^2 - x^2$ 
 $x \to$ 

SEGNO

$$\sqrt[3]{\chi^2} > \chi \qquad \chi^2 > \chi^3 - \chi^2 < 0 \qquad \chi^2 (\chi - 1) \leq 0 \qquad \chi^2 < 0 \qquad \qquad \chi < 1$$

$$= \frac{1}{2} \times 1$$

## DERIVATA

$$\int_{1}^{1}(x) = \frac{2}{3^{2}(x)} - 1 \qquad \text{C.E.} \quad x \neq 0 \qquad \int_{1}^{1}(0) = -\infty$$

$$\int_{1}^{1}(0) = +\infty$$

$$\int_{0}^{1} (x)^{2} = 0 \qquad \text{if } x = 0$$

$$\int_{0}^{2} (x)^{2} = 0$$

$$\int_{0}^{2} (x)^{2} = 0 \qquad \text{if } x = \frac{8}{27}$$

## SEGNO

$$\frac{2}{3\sqrt[3]{x}} - 1 > 0 \qquad 3\sqrt[3]{x} < 2x < \frac{g}{2x^{\frac{1}{4}}} \qquad 0 \qquad 8/27 \qquad x = 0 \text{ pt his} \qquad (0;0) \\ \times = 8/27 \text{ pt hax} \qquad (8/27; 4/27)$$

## DERIVATA"

$$y'' = \frac{-\lambda}{9x\sqrt[3]{x}} \qquad y'' = 0 \quad \emptyset \qquad y'' > 0 \quad \emptyset \quad \Rightarrow y'' < 0 \text{ well so C.E}$$