

تقسیم

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$$f(x) = f(1) \Rightarrow \frac{(1 - \frac{a}{r}) - (1 - a)}{r - 1} = \frac{a}{r}$$

$$f'(x) = -ax^{-r} \quad \frac{a}{r} = \frac{a}{rx} \quad x = \pm \sqrt{r}$$

$$y = ax^r - dx + 1/a$$

$$y' = Ear - a$$

$$x = ax^r - dx + 1/a$$

$$Ear - a = 1$$

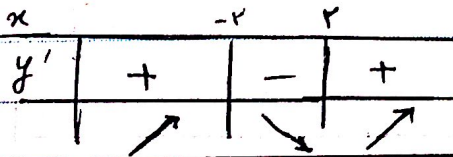
$$\begin{aligned} ax &= \frac{r}{r} \\ \frac{a}{r} &= \frac{r}{r} \end{aligned}$$

$$a = \pm \frac{1}{r}$$

$$4a = x$$

$$y = ax^r - rx + r$$

$$y' = rx^r - r \Rightarrow rx^r - r = 0 \quad x = \pm r$$



$$y = rx^r + ax^r - rbx - r$$

$$y' = rx^r + ax^r - rb$$

$$y = rx^r + rx^r - r$$

$$\frac{1}{x} \rightarrow -rb = 0 \quad \frac{1}{x} \rightarrow \frac{1}{x} = -r \quad 1/r - r = 0 \quad |a = r|$$

ext  $\rightarrow$

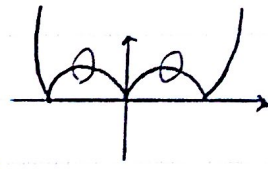
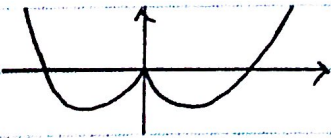
$$\begin{matrix} 0 \\ -r \end{matrix} \quad \begin{matrix} 1-r \\ 0 \end{matrix}$$

$$\frac{x = -r}{-1 + 1/r - r = 0}$$

$$R = \sqrt{r + 1/r} = \sqrt{r} \pm \sqrt{1/r}$$

$$f(x) = x^r - dx$$

$$x^r - dx \quad x > 0$$



$$\frac{n}{m} = \frac{r}{r} \quad (1/8) \quad x^r + dx \quad x < 0$$

(P) Gu min (Q) Gu man

$$f(x) = \begin{cases} x^r + rx & x > 0 \\ -x^r + rx & x < 0 \end{cases}$$

$$x^r + rx = 0 \quad x > 0 \quad x = -r \quad x = -r$$

$$-x^r + rx = 0 \quad x < 0 \quad x = \frac{r}{r} \quad x = r$$

$$-x^r + rx = 0 \quad x < 0 \quad x = \frac{r}{r} \quad x = r$$

$$-x^r + rx = 0 \quad x < 0 \quad x = \frac{r}{r} \quad x = r$$