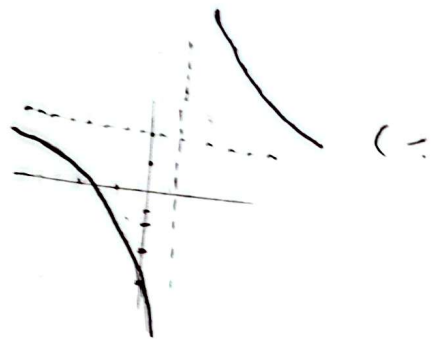


نوع الخيارات

$$f'(x) = \frac{x^c - r(x+1)}{(x-1)^r} \quad (-)$$

$$x^c - r(x+1) = 0 \Rightarrow x=1 \text{ هو}$$

$$x=1 \quad y=r \quad (الف) \quad (ع)$$



$$r-b=0 \Rightarrow b=r \quad (د)$$

$$a=r$$

$$f(x) = \frac{r(x+1)}{x-c} \quad (-)$$

$$\left| \frac{r}{r} \right| \quad (y-c) = \pm (x-r) \quad (ي)$$

$$\Delta > 0 \quad (ص)$$

$$\Delta > 0 \quad a^{c-1} > 0 \rightarrow \begin{cases} a > r & \text{ر.ف.ر} \\ a < r & \text{ر.ف.ر} \end{cases} \quad (أ)$$

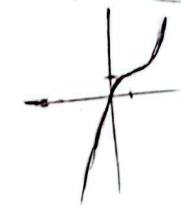
$$\frac{D_{x^c}}{D_{x^r}} = \frac{-1}{1-1} = \frac{1}{1} \quad (ب)$$

$$(ج) \quad (د)$$

$$f(x) = r(x^c - r(x+1)) = 0$$

$$x^c - r(x+1) = 0$$

$$\Rightarrow x=1$$



$$(ج) \quad (د)$$

$$f'(x) = \frac{-r(x^c) + r(x+1)}{x^r}$$

$$= \frac{-rx^c + r(x+1)}{x^r} = \frac{-x^c + x + 1}{x^r}$$

$$-x^c + x + 1 = 0 \Rightarrow x = \begin{cases} 0 \\ -1 \end{cases}$$

$$\left| \frac{-r}{r} \right|$$

$$(-)$$

$$f'(x) = \frac{r(x^c - 1) - r(x+1)^2}{(x^c - 1)^r}$$

$$= \frac{rx^c - r - r(x+1)^2}{(x^c - 1)^r} = \frac{x^c - r(x+1)}{(x^c - 1)^r}$$

$$x^c - r(x+1) = 0 \Rightarrow x = \begin{cases} 0 \\ -1 \end{cases}$$

$$(ج) \quad (د)$$

$$f'(x) = \frac{-x^c + r(x+1)}{(x-1)^r}$$

$$-x^c + r(x+1) = 0 \Rightarrow x = 2$$