

ملین کیا ہے

$$r \cos^2 \theta \times r - \sin^2 \theta \times r a = f'(a)$$

$$\lim_{a \rightarrow 0} \frac{f(a)}{a} = 0 \rightarrow f'(a) = 0 \rightarrow f'(0) = 0$$

$$4a = 0 \rightarrow a = 0 \rightarrow 1 + 0 + b = 0 \rightarrow b = -1$$

$$\lim_{a \rightarrow 0} \frac{f'(a)}{a} = r \rightarrow f''(a) = r$$

$$f''(0) = r$$

$$f'(a) = -r \cos^2 \theta \sin \theta + r a \cos \theta$$

$$f''(a) = -r \sin \theta \cos \theta + r \cos \theta$$

$$f''(0) = -r(1) + r = 0 \rightarrow r = 1$$

$$1 - 1 = 0$$

$$y = 2x - 1 \rightarrow 2x$$

$$2x(-2x) = -1 \rightarrow x = \pm \frac{1}{2} \rightarrow y = 2x - 1$$

$$y = -\frac{r}{r} = -\frac{1}{1} = -1$$

$$-\frac{r}{r} \times r = -\frac{r}{r}$$

$$m = \frac{4 + 12}{2 + 1} = 4 \rightarrow y = 4x - 9$$

$$f(x) = \frac{a}{x-1} \rightarrow 4x - 9 \rightarrow f' = 4 = -\frac{r}{(x-1)^2}$$

$$12x^2 - 12x + 1 = 0 \rightarrow x = \frac{1 \pm \sqrt{1-12}}{2}$$

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

$$\frac{2+a}{a+1} \xrightarrow{a=1} \frac{(1+a) - (a(1+a))}{(1+a)^2}$$

$$2a + 1 + 1 - a^2 = 1 - a^2 \rightarrow a = \pm 1$$

$$y = \frac{2 - \frac{1}{r}}{-\frac{1}{r} + 1} \rightarrow y = 1$$

$$y = rx + b \rightarrow b = -1$$

$$a - b = (-\frac{1}{r}) + 1 = \frac{r-1}{r}$$

$$f' = 4x^2 - 4x - 12 = 4(x-2)(x+1)$$

$$A \begin{vmatrix} 2 \\ -12 \end{vmatrix} B \begin{vmatrix} -1 \\ 1 \end{vmatrix} \rightarrow m = \frac{1+12}{-1} = -13$$

$$4x^2 - 4x - 12 = -9 \rightarrow \Delta > 0$$

حل المسألة (9)

~~حل المسألة~~
 $C = c \quad / \quad P = r a r + t a a + b \rightarrow P'(a) = 0 \rightarrow b = 0$

$$P(a) = a(r a r + t a a + b) \rightarrow a = \frac{-r a}{r} \rightarrow P(a) = \left(-\frac{r a}{r}\right)^2 + a\left(-\frac{r a}{r}\right) + b = 0$$

$$E a^r = -c \rightarrow a = -r \quad \left\{ \begin{array}{l} = \frac{-r a}{r} \\ \text{min} \end{array} \right. \quad \text{حي}$$

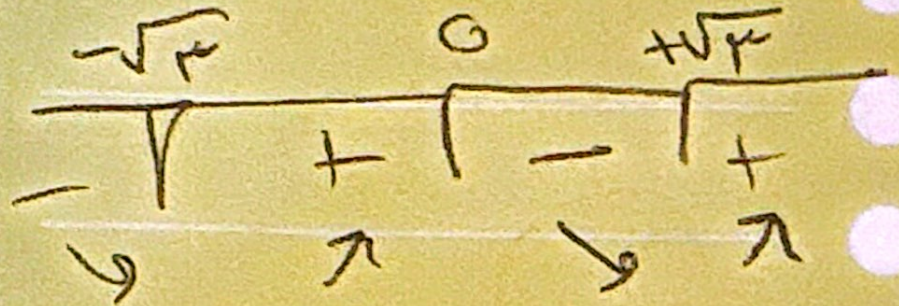
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15) مینتالیز

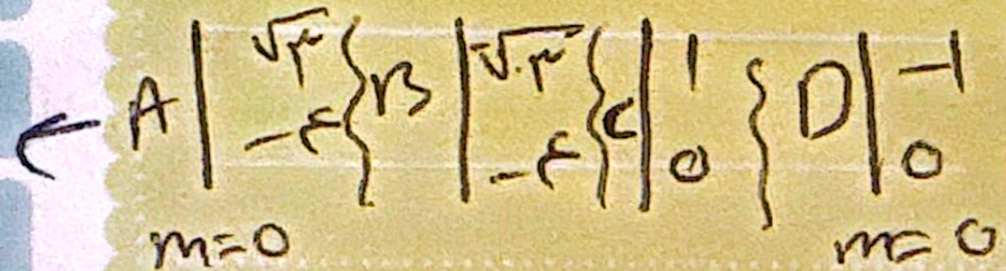
$$f(x) = 2x^3 - 9x^2 + 5$$

$$f'(x) = 6x^2 - 18x$$

$$x \rightarrow \pm\sqrt{3}$$



$$f''(x) = 12x - 18 \rightarrow x = \pm 1$$



AB و CD موازی هستند

چون هر دو کجی یکسان دارند