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Subject: -----

مباحث حساب

$f'(x) = -4 \sin 2x + 2a$ (1)

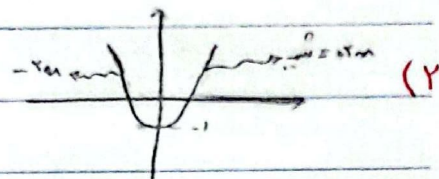
$\lim_{x \rightarrow 0} f'(x) = 2 \rightarrow \lim_{x \rightarrow 0} \frac{f'(x) - f'(0)}{x - 0} = \frac{f'(x) - f'(0)}{x} = f''(x) = -12 \cos 2x + 2a$

$-12 + 2a = 2 \rightarrow a = 4$

$a + b = 4$

$\lim_{x \rightarrow 0} \frac{f(x) - f(0)}{x - 0} = 0 \rightarrow f(0) = 0 \rightarrow 1 + b = 0 \rightarrow b = -1$

مباحث حساب



$2m \rightarrow -\frac{1}{2m} = -2m \rightarrow 4m^2 = 1 \rightarrow m = \pm \frac{1}{2} \rightarrow y = -\frac{3}{2}$
 $2x - \frac{3}{2} = \boxed{-\frac{3}{2}}$ = عرض

$4m - 9 = \text{constant} \rightarrow \frac{1}{m} = 4 = \text{constant}$ (3)

$y = \frac{a}{x-1} \rightarrow y' = \frac{-2a}{(x-1)^2} = 4 \rightarrow 12m^2 - 12m + 3 = -a$ (I)

$\frac{a}{2m-1} = 4m - 9 \rightarrow 12m^2 - 24m + 9 = a$ (II)

(I), (II) $\rightarrow -12m^2 + 12m - 3 = 12m^2 - 24m + 9 \rightarrow 24m^2 - 36m + 12 = 0$
 $m = \frac{1}{2}$ ✓

$n=1 \xrightarrow{(I)} a = -3 \quad f(0) = \frac{-3}{0-1} = \boxed{-\frac{1}{3}}$

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(I) $\frac{(a_{n+1}) - a(n+a)}{(a_{n+1})^r} = r \quad n=1 \rightarrow \frac{1-a^r}{(a+1)^r} = \frac{1-a}{a+1} = r$ (X)

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

$f(m) = g(m) \rightarrow \frac{r}{r} \sin m = \sin m + \frac{1}{r} \cos m \rightarrow \sin m = \cos m$ (A)

$f'(m) = \cos m - \frac{1}{r} \sin m \xrightarrow{\omega = \frac{\pi}{2}} \frac{\sqrt{r}}{r} - \frac{\sqrt{r}}{r} = \frac{\sqrt{r}}{r}$

$\frac{r\sqrt{r}}{r} = \frac{\sqrt{r}}{r} \times \frac{\pi}{r} \left(-\frac{r\sqrt{r}}{14} + \frac{r\sqrt{r}}{r} \right) \quad \frac{\sqrt{r}}{r} m + b = \text{konstant}$

$\frac{\sqrt{r}}{r} m = \frac{\pi \sqrt{r}}{14} - \frac{r\sqrt{r}}{r} \rightarrow m = \frac{\pi}{r} - r$

$f(m) = 4m^2 - 4m - 12 = 0 \rightarrow m = -1, 2$ (Y)

$\Delta B = \frac{-rV}{r} = -9$

	-1	2
f'	+	-
f	+	+

A -19

$4m^2 - 4m - 12 = -9 \pm r \rightarrow 4m^2 - 4m - 1 = 0$

$\Delta > 0 \rightarrow$ $\frac{r}{r}$

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$$y' = rkn^r + r(k+1)n \rightarrow y'' = rkn + rk + r = 0 \quad (v)$$

$$(rn + r)k = -r \rightarrow k = -1, -r$$

$$y' = rn^r + ran + b \xrightarrow{(-1, -r)} r(-a + b) = -r \rightarrow -ra + b = -1 \quad (A)$$

$$rn^r + an^r + bn - 1 \xrightarrow{(-1, -r)} -1 + a - b - 1 = -r \rightarrow a - b = -r$$

$$\begin{cases} -ra + b = -1 \\ a - b = -r \end{cases} \rightarrow -a = -9 \rightarrow a = 9, b = 11$$

a	= 9
b	= 11

$$y' = rn^r + ran + b \xrightarrow{(0, 0)} b = 0 \quad (9)$$

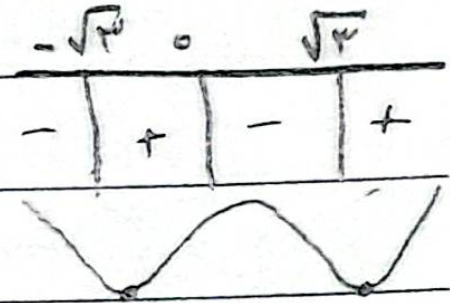
$$y = n^r + an^r + c \xrightarrow{(0, r)} c = -r$$

$$\begin{aligned} \rightarrow n^r + an^r + c = 0 &\rightarrow \frac{-1a^r}{r} + \frac{Ea^r}{9} + c = 0 \rightarrow a = -r \rightarrow a = r \\ \rightarrow rn + ra = 0 &\rightarrow n = -ra \end{aligned}$$

$$\rightarrow rn + r = 0 \rightarrow n = -r$$

$$f'(m) = 6m^2 - 12m \rightarrow 6m(m^2 - 2) = 0 \rightarrow m = 0, \sqrt{2}, -\sqrt{2} \quad (10)$$

$$m=0 \leftarrow (\sqrt{2}, -4), (-\sqrt{2}, -4) = B, A \text{ نقاط}$$



$$f''(m) = 12m - 12 = 0 \rightarrow 12(m - 1) = 0 \rightarrow m = 1$$

$$m=1 \leftarrow (1, 0) \text{ و } (1, 0) = D, C \text{ نقاط}$$

$$m = 1$$

۲. فقط برای این دو بر خودی ندارند