

1

$y = x^{\frac{1}{2}} - 1$ $y' = \frac{1}{2}x^{-\frac{1}{2}}$ $\frac{1}{2} \rightarrow -\frac{1}{2}$ $\frac{2}{1/2}$ 1
 $n, -n$ $n_1 = \pm \frac{1}{2}$ $-\frac{1}{2} \rightarrow -\frac{1}{2}$ $f(\frac{1}{2}) + f(-\frac{1}{2}) = -\frac{1}{2}$ 1

$f(n) = \frac{a}{n-1}$ $(\frac{1}{2}, 0, 0)$ $(-1, 0, -1)$ $f(0) = ?$ 1

$m = \frac{1A}{r} = 9$ $f = \frac{-r a}{(r n - 1)^2} = 9 \rightarrow n = 1 \rightarrow a = -r$ $\frac{1}{2}$
 $\frac{a}{\frac{1}{2} - 1} = \frac{9}{\frac{1}{2} - 1} \rightarrow a = -r$ $f(0) = \frac{-r}{a} = \frac{1}{2}$ $\frac{1}{2}$

$y = \frac{1}{n} + b$ $y = \frac{n+a}{a n + 1}$ $a - b = ?$ $\frac{1}{a} + \frac{1}{a} = \frac{1}{a} \rightarrow a = -\frac{1}{2}$ $\frac{1}{2}$ 1
 $y' = \frac{1}{n^2} = \frac{1-a}{(a n + 1)^2} \rightarrow n = 1 \rightarrow \frac{1-a}{a+1} = \frac{1}{2}$ $n = 1 \rightarrow b = -1 \rightarrow a - b = \frac{1}{2}$ $\frac{1}{2}$

$f(n) = \sin n + \frac{1}{2} \cos n$ $g(n) = \frac{r}{2} \sin n$ $[0, \pi]$
 $\frac{1}{2} \sin = \frac{1}{2} \cos \rightarrow \tan n = 1 \rightarrow n = \frac{\pi}{4}$ $y = \frac{(\frac{\pi}{4})^2}{2} + \frac{(\pi - \frac{\pi}{4})^2}{14}$ 1
 $f' = \cos n - \frac{1}{2} \sin n = \frac{\sqrt{2}}{2}$ $n = \frac{\pi}{4} - \frac{\pi}{2}$ $\epsilon n = \frac{1}{2}(\pi - \frac{\pi}{4}) = \frac{3\pi}{8}$

$f(n) = \frac{1}{n^2} - \frac{1}{n^2} - 15n + 1$ $f'(n) = \frac{1}{n^3} - \frac{1}{n^3} - 15 = 0 \rightarrow n = 5, -1$ 1
 $f(-1) = -1 - 1 + 15 + 1 = 14$ $\frac{1}{n^2} = -9$ $\text{für } A > 0$
 $f(5) = \frac{1}{25} - \frac{1}{25} - 75 + 1 = -74$
 $\frac{1}{n^2} - \frac{1}{n^2} - 15 = -9 \rightarrow n^2 - n = \frac{1}{2} \rightarrow n^2 - n - \frac{1}{2} = 0$ $1 - (-1) \Rightarrow +$

$$y = km^n + (k+1)n^r$$

(V)

$$y = n^r + an^r + bn - 1 \quad (-1, -\varepsilon)$$

$$\frac{a}{b} = ?$$

$$n^r + an^r + b \rightarrow 9n + 5a$$

$$9n + 5a = a \rightarrow a = 9$$

$$y = -1 + a - b - 1 = -\varepsilon \rightarrow a - b = -\varepsilon \rightarrow b = 0$$

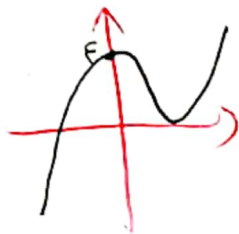
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(A)

$$f(n) = n^r + an^r + bn + c \quad f'(n) = r n^{r-1} + r a n^{r-1} + b = 0 \rightarrow n(r n + r a) = 0 \rightarrow n = -\frac{r}{\varepsilon} a$$

(9)

$$n = 0 \rightarrow y = \varepsilon \rightarrow c = \varepsilon$$



$$f'(0) = 0 \rightarrow b = 0$$

$$\left(-\frac{\varepsilon a}{\varepsilon}\right)^r + a \left(-\frac{\varepsilon a}{\varepsilon}\right)^r + \varepsilon = 0$$

$$\frac{\varepsilon}{\varepsilon} a^r + \varepsilon = 0 \rightarrow a = -\varepsilon$$

$$n_{min} = \varepsilon$$

$$-\frac{\varepsilon}{\varepsilon} x - \varepsilon = \varepsilon$$

A9B \rightarrow $\frac{1}{\varepsilon}$

C9D \rightarrow $\frac{1}{\varepsilon}$

$$f(n) = n^r - 9n^r + d$$

محل \rightarrow $\frac{1}{\varepsilon}$

$\frac{-\sqrt{r}}{\sqrt{r}} \rightarrow$ A9B

(10)

$$f'(n) = r n^{r-1} - 9r n^{r-1} = \varepsilon n (n^r - 9)$$



$$f''(n) = r n^{r-2} - 9r n^{r-2} \rightarrow r n^{r-2} - 9r = 0 \rightarrow n = \pm 1 \rightarrow$$

$m_{AB} = 0 \quad m_{CD} = 0$

محل \rightarrow $\frac{1}{\varepsilon}$

زاویه \rightarrow $\frac{1}{\varepsilon}$

B \rightarrow $\frac{1}{\varepsilon}$

برای \rightarrow $\frac{1}{\varepsilon}$