

08

بار بار انداز

09 $1 - y(n) \cdot (1 + \cos^2(n)) / (\cos(n) - \sqrt{2} \sin(n)) \cdot f(\tan(n) + \sqrt{2} \sin(n))$

10 $g(x_2) = 2f'_2 = \sqrt{2} \Rightarrow f'_2 = \frac{\sqrt{2}}{2} \leftarrow \text{پای} \quad (2)$

11

12 $2 - f - 2g, \frac{\cos^2 - 2\cos + 2 - 2}{2 - \cos}, \frac{\cos(\cos - 2)}{2 - \cos} = -\cos n$

13 $1 \rightarrow \sin \xrightarrow{n = \sqrt{n}} \left(-\frac{1}{2}\right) \leftarrow \text{پای} \quad (2)$

14

15 $f'_+ = (\sin - c) \tan$ ~~مایل منفرجه~~, $\frac{\sin \sqrt{a}}{\sqrt{a}}$ ~~مایل منفرجه~~
16 $= \frac{\sin \sqrt{a}}{\sqrt{a}}$

17 $f'_- = -(\sin - c), \frac{-\sin \sqrt{a}}{\sqrt{a}} = \frac{-\sin \sqrt{a}}{\sqrt{a}} = -\sqrt{a} \quad (2)$

18 $\frac{\sin \sqrt{a}}{\sqrt{a}} = \sqrt{a} \Rightarrow a = \frac{1}{4} \leftarrow \text{پای} \quad (2)$

19

20 $2 - \sin a + (-a) = -1 \Rightarrow 2 = \sin a \Rightarrow a = \frac{\pi}{2} \Rightarrow f'_2 = -\frac{\pi}{2} \quad (2)$

21 $y = \frac{n \pi}{\sqrt{2}} \Rightarrow m = \frac{1}{\sqrt{2}} \Rightarrow \frac{1}{\sqrt{2}} = \frac{a \pi}{4n^2 + 1}$

22

$va_{n+1} = (n+1)'$, $\frac{a_{n+1}}{n+1} = \frac{n \pi}{\sqrt{2}} \Rightarrow$

$\Rightarrow va^2 - 2a + 1 = 0 \Rightarrow a = \frac{2 \pm \sqrt{4 - 4}}{2} = 1 \leftarrow \text{پای} \quad (2)$

باب الفهرست

$$9 - \left. \begin{aligned} f(x) &= 12 + a - b \sin x \\ f'(x) &= 12 + a \sin x \end{aligned} \right\} \Rightarrow a = -12, b = -14$$

(۲)

باج $b - a = -2$ ✓

$$V - \sum_{n=1}^{\infty} n^n \Rightarrow f(x) = x^n \Rightarrow f(x) f'(x) = x^{n-1}$$

$$\sigma_{f(x)} \rightarrow (1 - \cos)^m \frac{x^m}{x^m} \Big/ \frac{1}{x} \rightarrow x^{m-1} \Rightarrow x^{n-1} = x^m \Rightarrow m = n-1$$

$$\Rightarrow x^{n-1} = x^m \Rightarrow m = n-1$$

$$x^{n-1} = x^m \Rightarrow m = \frac{n-1}{2} \Rightarrow x^{n-1} = x^m \Rightarrow m = \frac{n-1}{2}$$

$$\Rightarrow x^{m+n} = 9 \Rightarrow \text{باج } \checkmark$$

$$1 - f(x) \Rightarrow x = \frac{\sqrt{y}+1}{\sqrt{y}-1} \Rightarrow \sqrt{y} = \frac{n+1}{n-1} \Rightarrow y = \left(\frac{n+1}{n-1}\right)^2$$

$$\rightarrow \frac{(n-1) - (n+1)}{(n-1)^2} \times \frac{n+1}{n-1} \Rightarrow \frac{n-1}{n-1} = -1$$

باج ✓ (۲)

$$9 - \frac{1 - (1-a)}{1} = -1 \Rightarrow a = \frac{n+1}{n-1} \Rightarrow \frac{n+1}{n-1} = \frac{n+1}{n-1}$$

باج $\rightarrow 1$ ✓ (۲)

$$10 - \left. \begin{aligned} \frac{f(x_1) - f(x_2)}{x_1 - x_2} &= -\frac{x_1}{x_2} \\ \frac{f(x_1) - f(x_2)}{x_1 - x_2} &= \frac{x_1}{x_2} \end{aligned} \right\} \Rightarrow \frac{-x_1}{x_1} = -1$$

باج ✓ (۲)