

08

بار بار انداز

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

10 $g(x) = 2f'_2 \cdot \sqrt{x} \Rightarrow f'_2 \cdot \frac{\sqrt{x}}{2} \leftarrow$ پاسخ

11

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

13

14 $1 \rightarrow S_n \xrightarrow{n = \sqrt{n}} -\frac{1}{2} \leftarrow$ پاسخ

15

16 $f'_+ = (n - c) \tan \frac{\pi}{4} = \frac{\pi}{4} \sqrt{a} \Rightarrow \frac{\pi}{4} \sqrt{a}$

17

18 $f'_- = -(n - c), -\frac{\pi}{4} \sqrt{a} = -\frac{\pi}{4} \sqrt{a} \Rightarrow -\frac{\pi}{4} \sqrt{a}$

19

20 $\frac{\pi}{4} \sqrt{a} = \frac{\pi}{4} \sqrt{a} \Rightarrow a = \frac{1}{4} \leftarrow$ پاسخ

21

22 $2 - \cos a + (-a) = -1 \Rightarrow 2 = \cos a \Rightarrow a = \frac{\pi}{3} \Rightarrow f'_2 = -\frac{\pi}{3}$

23

24 $y = \frac{n \pi}{\sqrt{x}} \Rightarrow m = \frac{1}{\sqrt{x}} \Rightarrow \frac{1}{\sqrt{x}} = \frac{a \pi}{\sqrt{x} \sqrt{x+1}}$

25

26 $\sqrt{n+1} = (n+1)^{\frac{1}{2}}, \frac{a n - 1}{n+1} = \frac{n \pi}{\sqrt{x}} \Rightarrow$

27 $\Rightarrow \sqrt{a^2 - 2a + 1} = \frac{\pi}{\sqrt{x}} \Rightarrow a = \frac{\pi}{\sqrt{x}} \leftarrow$ پاسخ

28

بار بار انور

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

$$b - a = -2 \quad \leftarrow \text{جواب}$$

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

$$\sigma(x) \rightarrow (1 - \cos)^m \cdot \frac{x^m}{x^m} \rightarrow \frac{1}{x} \rightarrow x^{m-1} \cdot x^m \Rightarrow x^{2m-1}$$

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

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

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

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

$$\rightarrow \frac{(x-1)^2 - (x+1)^2}{(x-1)^2} \cdot \frac{x+1}{x-1} \Rightarrow x = -1 \quad \leftarrow \text{جواب}$$

$$9 - \frac{1 - (1-a)}{1} = -1 \Rightarrow a = \frac{1}{2} \quad \frac{x+1}{x-1} = \frac{x+1}{x-1} + a(x-1)$$

$$\leftarrow \text{جواب} \rightarrow 1$$

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