

1, 2, 3

توابع و خواص آن ها

1) $\begin{cases} y_1 = 2x_1 + x_1 \\ y_2 = 2x_2 + x_2 \end{cases} \Rightarrow y_1 = y_2 \Rightarrow y_1 = y_2$

2) $\begin{cases} |y_1| + x_1^2 = x_1 + 3 \\ |y_2| = x_2^2 = x_2 + 3 \end{cases} \Rightarrow |y_1| = |y_2| \Rightarrow y_1 = \pm y_2$

3) $\sqrt{x-2} + |y-2| = 0 \Rightarrow x=2, y=2$

4) $x = \cos y \Rightarrow x=0 \Rightarrow \cos 90^\circ \rightarrow 1, \cos 270^\circ \rightarrow -1$

5) $y=k \rightarrow$ انی هر خطی با این است $\begin{bmatrix} 3 \\ 1 \end{bmatrix} \rightarrow x=3, y=1$

6) $y = ax + b, y = 2x + b \Rightarrow b=0$

7) $y = \overline{ax+b} \Rightarrow y = \overline{x} \Rightarrow a+rb=1+r(0)=1 \Rightarrow a=1$

8) $y = x^2 + ax + b \Rightarrow |a| \leq 1, a=b, c=b \Rightarrow \begin{bmatrix} 2 \\ 1 \end{bmatrix} \Rightarrow x=2, y=1$

9) $x_A = \frac{-b}{2a} \Rightarrow 2 = \frac{-b}{1} \Rightarrow -b=2 \Rightarrow b=-2$

10) $a+b^2 = 1 + (-2)^2 = 5$

11) $a = -\sum \Delta S = 1 \rightarrow 1 = (2)^2 - 4(2) + b \Rightarrow b = 7$

12) $y = 2x + 1 \Rightarrow a=2, b=1 \Rightarrow x=1 \Rightarrow y = 2(1) + 1 = 3$

13) $y = -3x + 1 \Rightarrow a=-3, b=1 \Rightarrow x=1 \Rightarrow y = -3(1) + 1 = -2$

توابع و خواص آن ها

1) $x=0 \Rightarrow y=0, x=1 \Rightarrow y=1, x=2 \Rightarrow y=16$

2) $y = x^2 \rightarrow \Delta BAC$

3) $y = \frac{x+k}{x^2-kx}$

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19) $y = \frac{x+k}{x^2-kx}$

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توابع و خواص آن ها

1) $\frac{\pi}{6} \rightarrow 30^\circ \rightarrow \cos 30^\circ = \frac{\sqrt{3}}{2} \Rightarrow -(-\frac{\sqrt{3}}{2}) = \frac{\sqrt{3}}{2}$

2) $\frac{\pi}{4} \rightarrow 45^\circ \rightarrow \cos 45^\circ = \frac{\sqrt{2}}{2} \Rightarrow -(-\frac{\sqrt{2}}{2}) = \frac{\sqrt{2}}{2}$

3) $\frac{\pi}{3} \rightarrow 60^\circ \rightarrow \cos 60^\circ = \frac{1}{2} \Rightarrow -(-\frac{1}{2}) = \frac{1}{2}$

4) $\frac{\pi}{2} \rightarrow 90^\circ \rightarrow \cos 90^\circ = 0$

5) $\frac{2\pi}{3} \rightarrow 120^\circ \rightarrow \cos 120^\circ = -\frac{1}{2} \Rightarrow -(-\frac{1}{2}) = \frac{1}{2}$

6) $\frac{3\pi}{4} \rightarrow 135^\circ \rightarrow \cos 135^\circ = -\frac{\sqrt{2}}{2} \Rightarrow -(-\frac{\sqrt{2}}{2}) = \frac{\sqrt{2}}{2}$

7) $\frac{5\pi}{6} \rightarrow 150^\circ \rightarrow \cos 150^\circ = -\frac{\sqrt{3}}{2} \Rightarrow -(-\frac{\sqrt{3}}{2}) = \frac{\sqrt{3}}{2}$

8) $\pi \rightarrow 180^\circ \rightarrow \cos 180^\circ = -1$

9) $\frac{7\pi}{6} \rightarrow 210^\circ \rightarrow \cos 210^\circ = -\frac{\sqrt{3}}{2} \Rightarrow -(-\frac{\sqrt{3}}{2}) = \frac{\sqrt{3}}{2}$

10) $\frac{5\pi}{4} \rightarrow 225^\circ \rightarrow \cos 225^\circ = -\frac{\sqrt{2}}{2} \Rightarrow -(-\frac{\sqrt{2}}{2}) = \frac{\sqrt{2}}{2}$

11) $\frac{4\pi}{3} \rightarrow 240^\circ \rightarrow \cos 240^\circ = -\frac{1}{2} \Rightarrow -(-\frac{1}{2}) = \frac{1}{2}$

12) $\frac{3\pi}{2} \rightarrow 270^\circ \rightarrow \cos 270^\circ = 0$

13) $\frac{5\pi}{3} \rightarrow 300^\circ \rightarrow \cos 300^\circ = \frac{1}{2} \Rightarrow -(-\frac{1}{2}) = \frac{1}{2}$

14) $\frac{7\pi}{4} \rightarrow 315^\circ \rightarrow \cos 315^\circ = \frac{\sqrt{2}}{2} \Rightarrow -(-\frac{\sqrt{2}}{2}) = \frac{\sqrt{2}}{2}$

15) $\frac{11\pi}{6} \rightarrow 330^\circ \rightarrow \cos 330^\circ = \frac{\sqrt{3}}{2} \Rightarrow -(-\frac{\sqrt{3}}{2}) = \frac{\sqrt{3}}{2}$

16) $\frac{13\pi}{6} \rightarrow 375^\circ \rightarrow \cos 375^\circ = \frac{\sqrt{3}}{2} \Rightarrow -(-\frac{\sqrt{3}}{2}) = \frac{\sqrt{3}}{2}$