

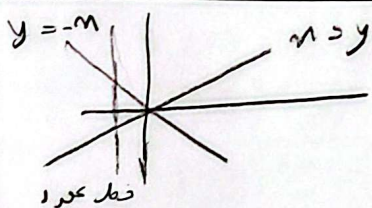
$$f = \{(1, 49), (1, 9^2 + 3), (2, 39)\}$$

دگیری $\frac{C}{9}$ و پس بین آن ها $\xrightarrow{\text{معادله ضرب 9}} 9^2 - 49 + 3 = 0$ ①

$$9 = \{1, 3\}$$

$$f = \{(1, 4), (1, 3), (2, 3)\} \checkmark \quad f = \{(1, 12), (1, 12), (2, 9)\} \checkmark$$

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$$|y| = |m|$$

الف) تابع نیست

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$$|y| + \sqrt{n-1} = 0$$

$$|y| \geq 0, \sqrt{n-1} \geq 0$$

ب) تابع است

$$|y| + \sqrt{n-1} = 0 \Rightarrow |y| = 0 \text{ and } \sqrt{n-1} = 0 \Rightarrow y = 0 \text{ and } n = 1$$

الف) مثال نقص $n = 3$ تابع نیست $y = \{2, 0\}$ $|y-1| = \sqrt{n-2} \Rightarrow |y-1| = 1$

ب) مثال نقص $n = 0$ $y = \{-1, 0, 1\}$ $y^5 - y = \frac{n^2}{2} \Rightarrow y^5 - y = 0 \Rightarrow y(y^4 - 1) = 0$

ج) مثال نقص $n = 0$ $\sin^2(n) + \cos^2(\frac{\pi}{2}) = 1 \Rightarrow \sin^2(0) + \cos^2(\frac{\pi}{2}) = 1$

د) مثال نقص $n = 0$ $2my = n \Rightarrow 0y = 0 \Rightarrow y = \text{هر عددی}$

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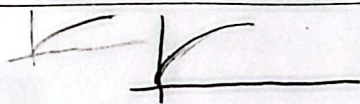
الف) مثال نقص $n = 2$ $n^2 + |y-1| = 4n \Rightarrow 4 + |y-1| = 8 \Rightarrow |y-1| = 4$

$$|y-1| = 4 \Rightarrow y-1 = \pm 4 \Rightarrow y = \{5, -3\}$$

ب) تابع است $y^5 + 3n = 0 \Rightarrow y^5 = -3n \Rightarrow y = \sqrt[5]{-3n} \Rightarrow y = -\sqrt[5]{3n}$

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$$y = \sqrt[4]{n}$$



الف)

$$y = \sqrt[5]{n}$$



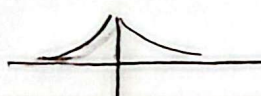
ب)

$$y = \frac{1}{n^3}$$



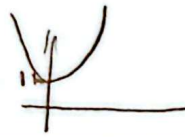
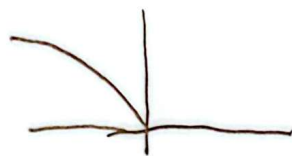
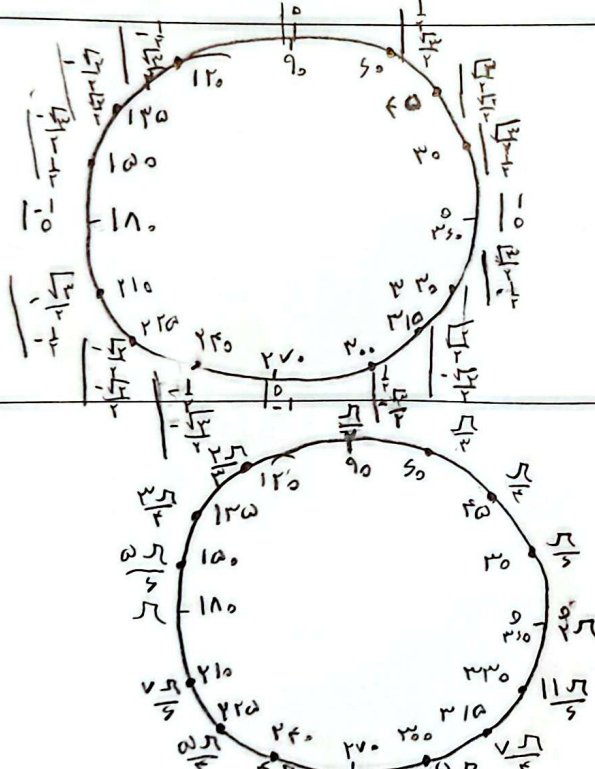
ج)

$$y = \frac{1}{n^4}$$



د)

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  	$y = (n-1)^2$ (الف) $y = (n+2)^2$ (ب) $y = n^2 - 2$ (ج) $y = n^2 + 1$ (د)	٦
 	$y = \sqrt{-n}$ (ب) $y = -\sqrt{-n}$ (ج) $y = -\sqrt{n} + 2$ (د)	٧
		٨ ٩
$-\frac{1}{2} \leq \sin 110^\circ$ (ب) $-\frac{1}{2} \leq \sin \frac{11\pi}{5}$ (د)	$-\frac{1}{2} \leq \cos 110^\circ$ (الف) $\frac{1}{2} \leq \cos \frac{\omega\pi}{3}$ (ج)	١٠