

$$F = \{ (1, 4a), (1, a^2 + 3), (1, 3a) \}$$

$$4a = a^2 + 3$$

$$a^2 - 4a + 3 = 0$$

$$(a-1)(a-3) = 0$$

$$a = 1 \text{ و } a = 3$$

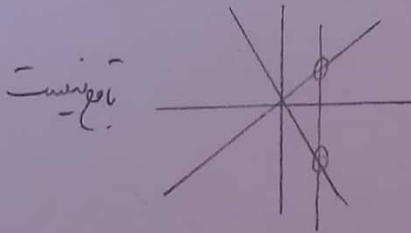
$$a = 1$$

$$a = 3$$

$$a = 3$$

۲

$$|y| \leq |x|$$



بعضی نیست

$$\sqrt{x-1} + |y| \leq \sqrt{x-1} \text{ و } y = 0$$

$$|y| = 0 \text{ و } y = 0$$

۲



نقطه [0] تابع

$$|y-1| \leq \sqrt{x-1} \text{ و } y = \frac{x}{2}$$

$$|y-1| \leq \sqrt{x-1}$$

$$y-1 \leq 1 \text{ و } y-1 \geq -1$$

$$y \leq 2 \text{ و } y \geq 0$$

$$y = \frac{x}{2} \text{ و } y = 0$$

بعضی نیست

۳

$$\sin^2 x + \cos^2 y = 1$$

$$0 + \cos^2 y = 1$$

$$\cos^2 y = 1$$

$$\cos y = \pm 1$$

بعضی نیست

$$x^2 + y^2 = 1$$

$$x^2 + y^2 = 1$$

به ازای هر مقدار

درست است

بعضی نیست

۱-د، ۲-د، ۳-د، ۴-د، ۵-د

$$|x| + |y-1| \leq 2$$

$$1 + |y-1| \leq 2$$

$$|y-1| \leq 1$$

$$y-1 \leq 1 \text{ و } y-1 \geq -1$$

$$y \leq 2 \text{ و } y \geq 0$$

$$y^2 + 3x = 0$$

$$(x_1, y_1) \in F \text{ و } (x_2, y_2) \in F \implies y_1 = y_2$$

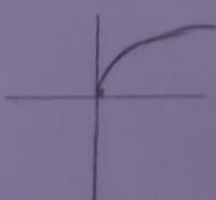
$$y_1^2 + 3x_1 = 0 \text{ و } y_2^2 + 3x_2 = 0$$

$$y_1^2 = -3x_1 \text{ و } y_2^2 = -3x_2$$

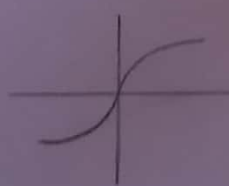
$$y_1 = y_2 \text{ و } x_1 = x_2$$

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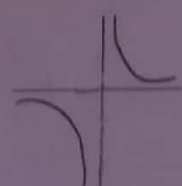
$$y = \sqrt{x}$$



$$y = \sqrt{x}$$

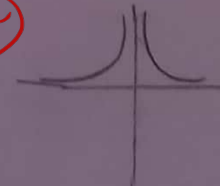


$$y = \frac{1}{x^2}$$

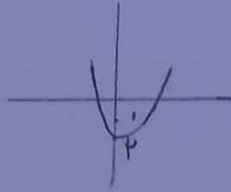
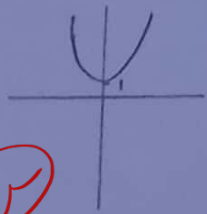
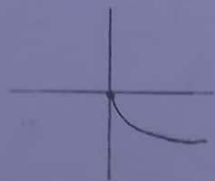
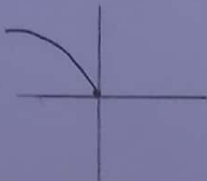


$$y = \frac{1}{x^2}$$

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الف) $y = (n-1)^2$	ب) $y = (n+2)^2$	ج) $y = n^2 - 2$	د) $y = n^2 + 1$	٦
				
الف) $y = \sqrt{n}$	ب) $y = \sqrt{-n}$	ج) $y = -\sqrt{n}$	د) $y = -\sqrt{n+2}$	٧
				
				٨
				٩
الف) $\cos 120^\circ = -\frac{1}{2}$	ج) $\cos \frac{5\pi}{3} = \frac{1}{2}$			١٠
ب) $\sin 150^\circ = \frac{1}{2}$	د) $\sin \frac{11\pi}{6} = -\frac{1}{2}$			