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نام و نام خانوادگی دریا پاسخنامه تشریحی تکلیف شماره ۲ کلاس دهم A

$$f = \{(1, \varepsilon a), (1, a^2 + 3), (2, 3a)\}$$

$$\varepsilon a = a^2 + 3$$

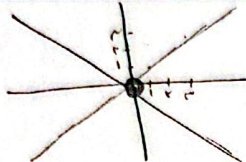
$$a^2 - \varepsilon a + 3 = 0$$

$$(a - 3)(a - 1) = 0 \quad a = 1, 3$$

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$$|y| = |x|$$



$$y = x \quad x = 2$$

$$y = -x \quad -2 = -(-2)$$

برای ۱ و ۲ دو تایی داریم
تابع نیست

تابع است

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

$$|y| = 0 \quad y = 0$$

$$\sqrt{x-1} = 0 \quad x = 1$$

فقط نقطه $(1, 0)$
وجود دارد

$$|y-1| = \sqrt{x-2}$$

$$y-1 = \pm \sqrt{x-2}$$

$$y = 1 + \sqrt{x-2}$$

$$|y-1| = \sqrt{3-2} = 1$$

$$x = 3$$

تابع نیست

$$y^2 - y = \frac{x^2}{4}$$

$$y(y-1) = \frac{x^2}{4}$$

$$x = 0$$

$$y(y-1) = 0$$

$$y^2 - 1 = 0$$

$$y^2 - 1 = 0$$

تابع نیست

$$\sin^2 x + \cos^2 \frac{y}{4} = 1$$

$$x = 0$$

$$\cos^2 \frac{y}{4} = 1$$

$$y = 0, 2\pi, -2\pi, \dots$$

$$(y^2 - 1)(y^2 + 1) = 0$$

$$y^2 - 1 = 0$$

تابع نیست

$$x^2 y = m$$

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

$$xy = 1$$

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

$$m \neq 0$$

تابع نیست

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$$x^2 + |y-1| = \varepsilon x$$

$$x = 1$$

$$|y-1| = 3$$

$$y-1 = 3$$

$$y = 4$$

$$y = -2$$

تابع نیست

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

$$m = 0 \rightarrow y = 0$$

$$m = -\frac{1}{3} \rightarrow y = 1$$

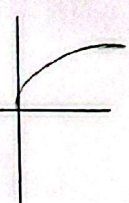
$$m = \frac{1}{3} \rightarrow y = -1$$

تابع است

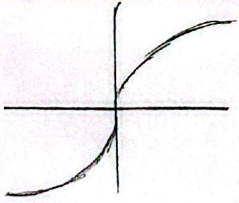
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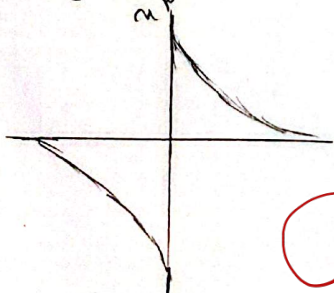
$$y = \sqrt{x}$$



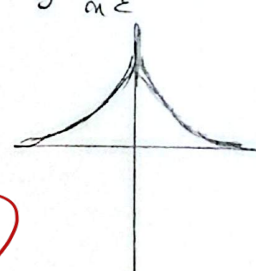
$$y = \sqrt[3]{x}$$



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

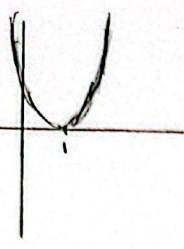
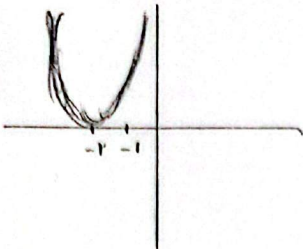
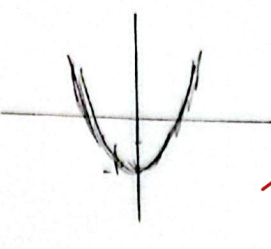
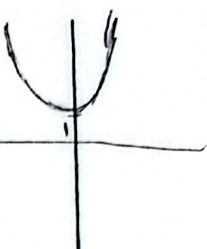
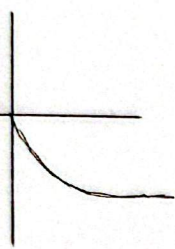
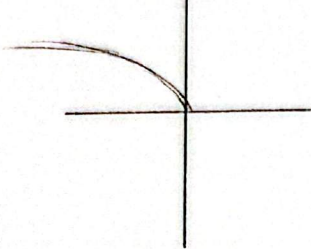
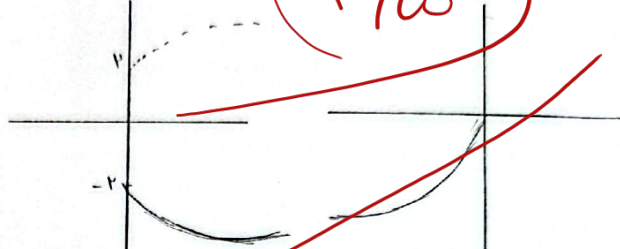
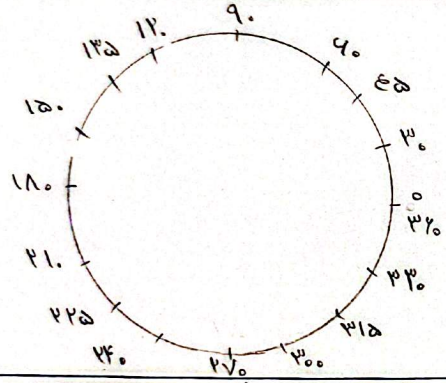
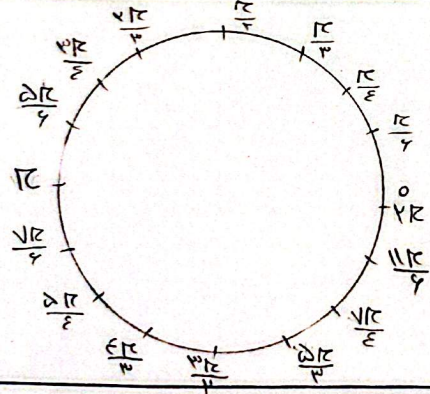


$$y = \frac{1}{x^2}$$



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$\cos 120^\circ = -\frac{1}{2}$ $\sin 120^\circ = \frac{\sqrt{3}}{2}$ $\cos \frac{2\pi}{3} = -\frac{1}{2}$ $\sin \frac{2\pi}{3} = \frac{\sqrt{3}}{2}$	١٠