

۱۷۵/۱۷۵

نام و نام خانوادگی آریین زبانی پاسنامه تشریحی تکلیف شماره ۲ کلاس دهم پسر A

$$f = \{(1, a), (1, a^2 + 3), (2, 2a)\} \rightarrow 2asa^2 + 3 \rightarrow a^2 - 2a + 3 = 0$$

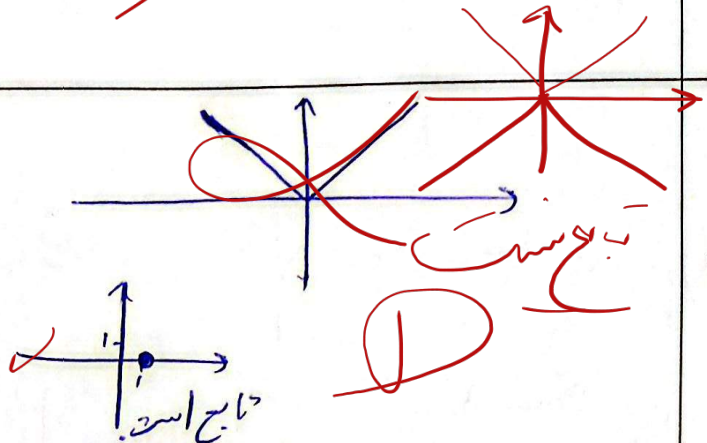
$$\rightarrow (a-3)(a-1) = 0 \rightarrow \boxed{a=1, a=3}$$

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$$\text{الف) } |y| = |x| \rightarrow y = |x| \rightarrow$$

$$\text{ب) } |y| + \sqrt{x-1} = 0 \rightarrow x=1, y=0$$

مردد عبارت + هست
مردد عبارت منفی است



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$$\text{الف) } |y-1| = \sqrt{x-2} \rightarrow x=2, y=1$$

$$\text{ب) } y^5 - y = x^2 \rightarrow x=0, y=0$$

تابع نیست

$$\text{ج) } \sin^2 x + \cos^2 \frac{y}{2} = 1 \rightarrow \sin^2 x = 0, \cos^2 \frac{y}{2} = 1 \rightarrow y = \pm 2$$

تابع نیست

$$\text{د) } 2xy = x \rightarrow x=0 \rightarrow y=R$$

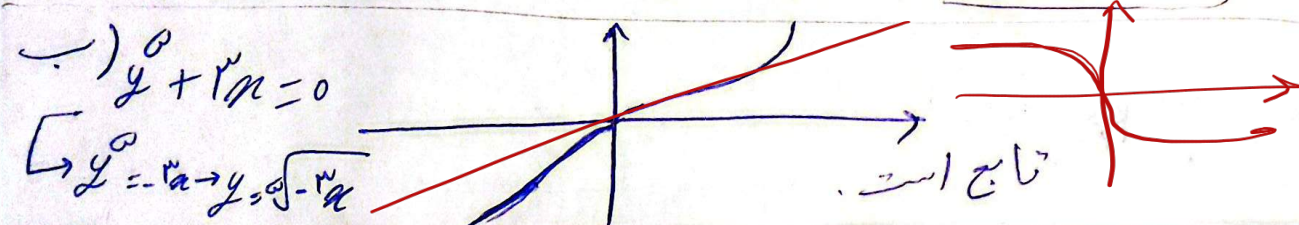
تابع نیست

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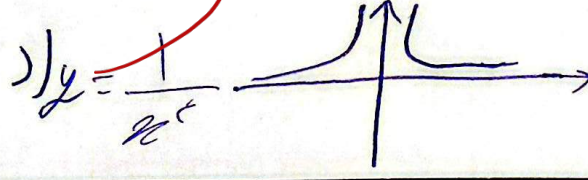
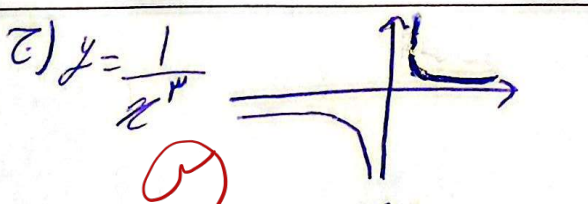
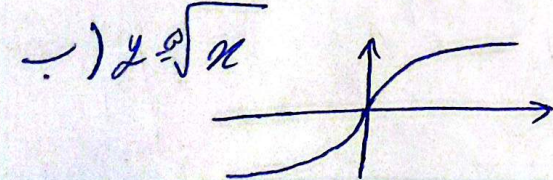
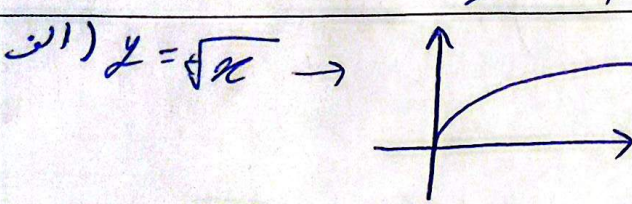
$$\text{الف) } x^2 + |y-1| = 2x \rightarrow x^2 - 2x = -|y-1| \rightarrow x=1, y=1$$

$$\rightarrow 3 = |y-1| \rightarrow y-1 = \pm 3 \rightarrow y=4, y=-2$$

تابع نیست

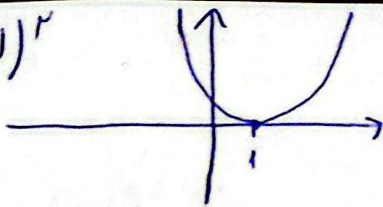


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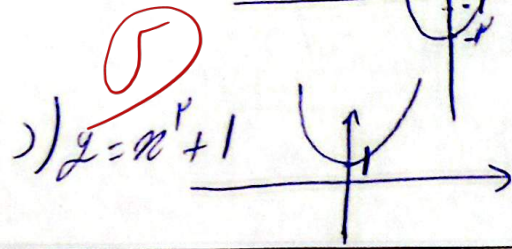
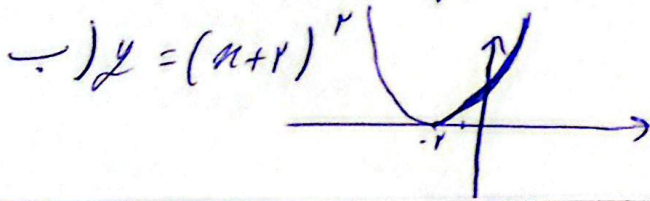
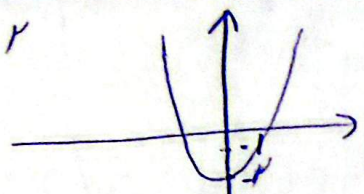


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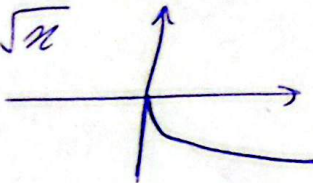
الف) $y = (x-1)^2$



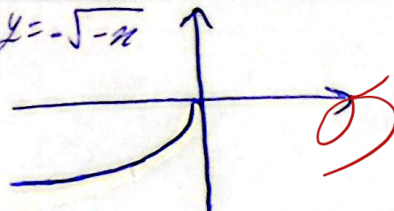
ج) $y = x^2 - 2$



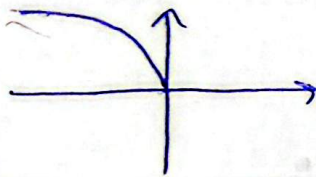
الف) $y = -\sqrt{x}$



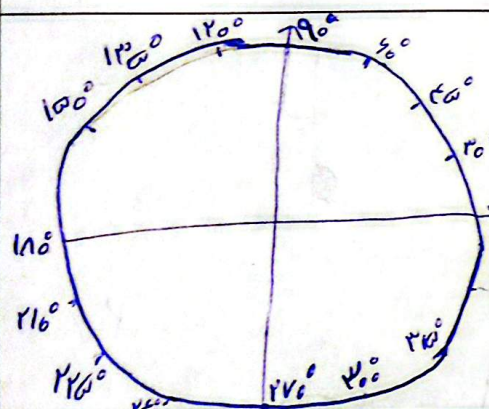
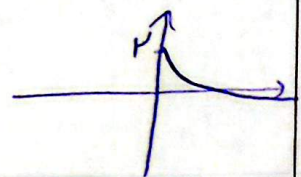
ج) $y = -\sqrt{-x}$



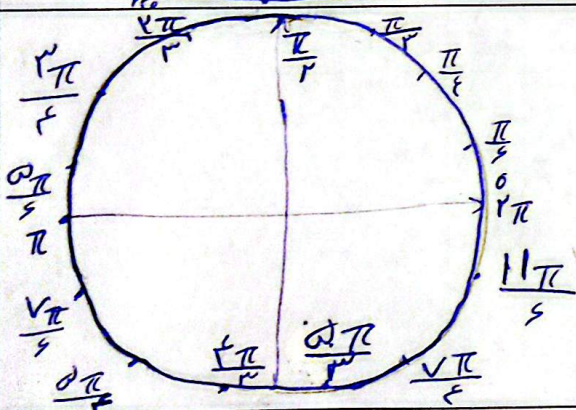
ب) $y = \sqrt{-x}$



د) $y = -\sqrt{x} + 1$



0°	$\cos 0^\circ = 1$	$\sin 0^\circ = 0$	90°	$\cos 90^\circ = 0$	$\sin 90^\circ = 1$	180°	$\cos 180^\circ = -1$	$\sin 180^\circ = 0$	270°	$\cos 270^\circ = 0$	$\sin 270^\circ = -1$
30°	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	60°	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	150°	$-\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	240°	$-\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$
45°	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	135°	$-\frac{\sqrt{2}}{2}$	$\frac{\sqrt{2}}{2}$	225°	$-\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{2}}{2}$	315°	$\frac{\sqrt{2}}{2}$	$-\frac{\sqrt{2}}{2}$
60°	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	120°	$-\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	210°	$-\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	300°	$\frac{\sqrt{3}}{2}$	$-\frac{1}{2}$
75°	$\frac{\sqrt{6}-\sqrt{2}}{4}$	$\frac{\sqrt{6}+\sqrt{2}}{4}$	105°	$\frac{\sqrt{6}+\sqrt{2}}{4}$	$\frac{\sqrt{6}-\sqrt{2}}{4}$	195°	$-\frac{\sqrt{6}+\sqrt{2}}{4}$	$-\frac{\sqrt{6}-\sqrt{2}}{4}$	285°	$-\frac{\sqrt{6}-\sqrt{2}}{4}$	$-\frac{\sqrt{6}+\sqrt{2}}{4}$



الف) $\cos 120^\circ = -\frac{1}{2}$, $\sin 120^\circ = \frac{\sqrt{3}}{2}$

ب) $\sin 180^\circ = 0$, $\cos 180^\circ = -1$

ج) $\cos \frac{4\pi}{3} = -\frac{1}{2}$, $\sin \frac{4\pi}{3} = -\frac{\sqrt{3}}{2}$

د) $\sin \frac{11\pi}{6} = -\frac{1}{2}$, $\cos \frac{11\pi}{6} = \frac{\sqrt{3}}{2}$