

نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره ۲... کلاس: دبیر: ۱۳۹۷/۱/۱۱

$$P = \{(1, 4a), (1, a^2+3), (2, 3a)\} \Rightarrow 4a = a^2+3 \Rightarrow a^2-4a+3=0$$

$$(عوامل مشترک) \Rightarrow (a-1)(a-3)=0 \Rightarrow \begin{matrix} a=1 \\ a=3 \end{matrix}$$

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الف) $|y| = |x|$

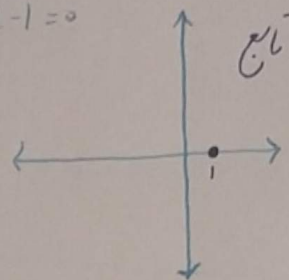
ب) $|y| + \sqrt{x-1} = 0$

هر دو صفا صفر

$|y|=0 \Rightarrow y=0$

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

$x-1=0 \Rightarrow x=1$



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الف) $|y-1| = \sqrt{x-2}$ $x=3 \Rightarrow |y-1| = \sqrt{3-2} = 1$
 $|y-1|=1 \Rightarrow |y-1|=1 \Rightarrow y-1=1 \text{ یا } y-1=-1$
 $y=2 \text{ و } y=0$

تابع نیست

ب) $y^5 - y = \frac{x^2}{4} \Rightarrow x=0 \Rightarrow y(y^4-1) = \frac{x^2}{4} \Rightarrow$
 $y(y^2-1)(y^2+1) = 0 \Rightarrow y=0 \text{ و } y=\pm 1$

تابع نیست

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ج) $\sin^2 x + \cos^2 y = 1$ $x=0 \Rightarrow \cos^2 \frac{y}{2} = 1 \Rightarrow$
 $\cos^2 \frac{y}{2} = 1, \cos^2 \frac{3\pi}{2} = 1$ $1, -1$
 $y=0, 3\pi$

تابع نیست

د) $2xy = x \Rightarrow x=0 \Rightarrow 2(0)y=0$
 $y=1R$

تابع نیست

الف) $x^2 + |y-1| = 4 \Rightarrow x=1 \Rightarrow$
 $1 + |y-1| = 4 \Rightarrow |y-1| = 3 \Rightarrow y-1=3 \text{ یا } y-1=-3$
 $y=4 \text{ یا } y=-2$

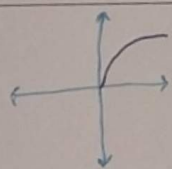
تابع نیست

ب) $y^5 + 3x = 0 \Rightarrow y^5 = -3x \Rightarrow x=0 \Rightarrow y=0$
 $x=1 \Rightarrow y^5 = -3$

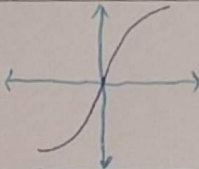
تابع

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الف) $y = \sqrt{x}$

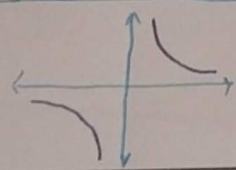


ب) $y = \sqrt[5]{x}$

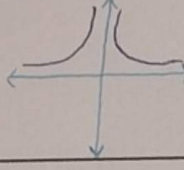


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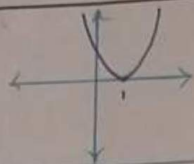
ج) $y = \frac{1}{x^3}$



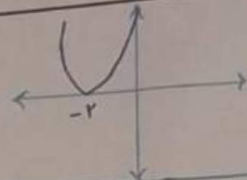
د) $y = \frac{1}{x^4}$



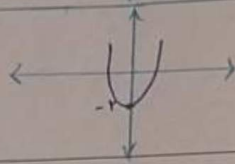
الف) $y = (x-1)^2$



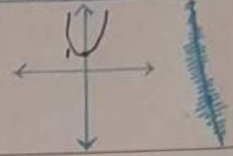
ب) $y = (x+1)^2$



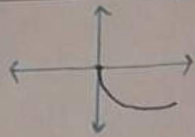
ج) $y = x^2 + 1$



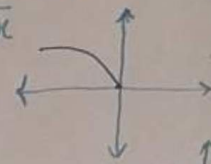
د) $y = x^2 + 1$



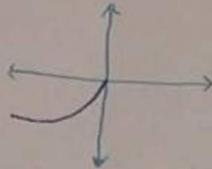
الف) $y = -\sqrt{x}$



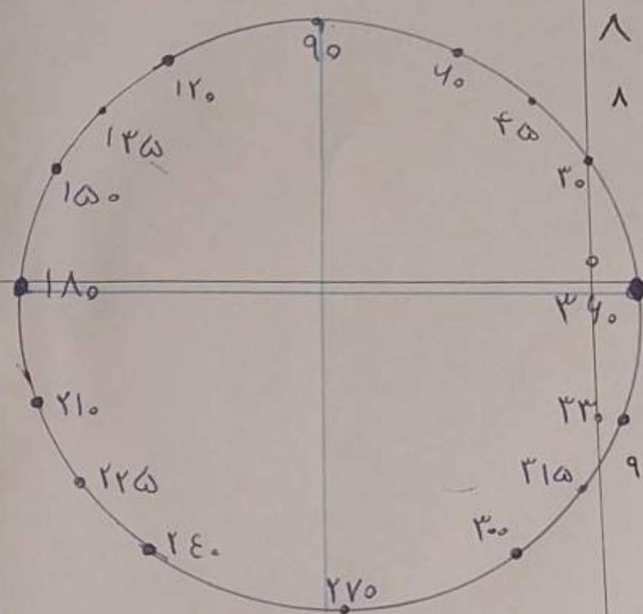
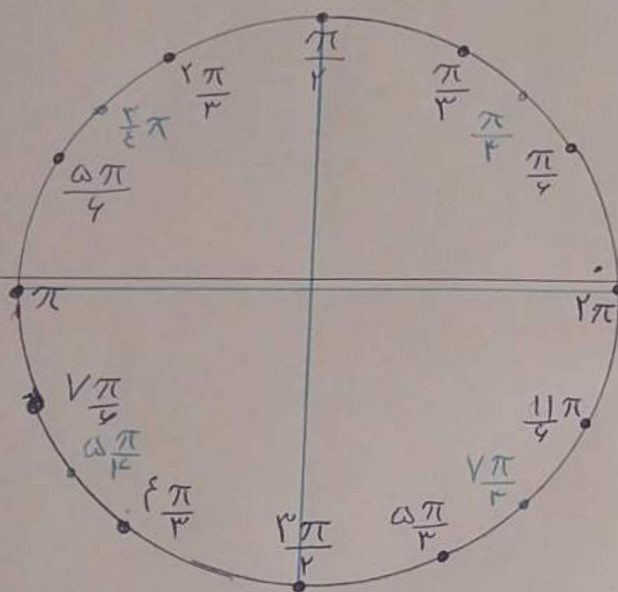
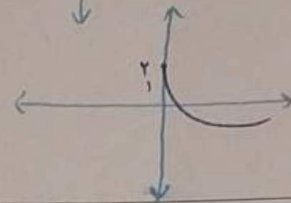
ب) $y = \sqrt{-x}$



ج) $y = -\sqrt{-x}$



د) $y = \sqrt{x+1}$



الف) $\cos 120^\circ \rightarrow -\frac{1}{2}$

ب) $\sin 150^\circ \rightarrow \frac{1}{2}$

ج) $\cos \frac{5\pi}{3} \rightarrow \frac{1}{2}$

د) $\sin \frac{11\pi}{4} \rightarrow -\frac{1}{2}$