

نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره ... کلاس: ...

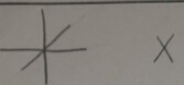
$$f = \{(1, f(a)), (1, a^2 \cdot 2), (2, 3a)\}$$

$$a = 1 \text{ و } 3$$

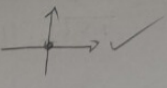
$$f(a) = a^2 + 2 \xrightarrow{a=1} f(1) = 1^2 + 2 \rightarrow f = 3$$

$$f(a) = a^2 + 2 \xrightarrow{a=3} f(3) = 3^2 + 2 \rightarrow 11 = 11$$

الف) $|y| = |x|$



ب) $|y| + \sqrt{x-1} = 0 \rightarrow$



الف) $|y-1| = \sqrt{x-2} \xrightarrow{x=2} |y-1| = 1 \rightarrow y = 0 \text{ و } 2$

ب) $y^2 - y = \frac{x^2}{4} \xrightarrow{x=0} y^2 - y = 0 \rightarrow y(y-1) = 0 \rightarrow y = 0 \text{ و } 1$

ج) $\sin^2 x + \cos^2 \frac{y}{2} = 1 \xrightarrow{x=0} \cos^2 \frac{y}{2} = 1 \rightarrow y = 0 \text{ و } 2\pi$

د) $2xy = x \xrightarrow{x=0} 0 = 0$ یا هر عددی $x \neq 0$ باشد $y = \frac{1}{2}$

الف) $x^2 + |y-1| = 4x \rightarrow |y-1| = 4x - x^2 \rightarrow x = 1$
 $|y-1| = 3 \rightarrow y = -2 \text{ و } 4$ تابع نیست

ب) $y^2 + 2x = 0 \rightarrow y^2 = -2x$
 $y_1 = -\sqrt{2x}, y_2 = \sqrt{2x}$ تابع هست

الف) $y = \sqrt{x} \rightarrow$



ب) $y = \sqrt{x} \rightarrow$



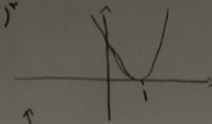
ج) $y = \frac{1}{x^2} \rightarrow$



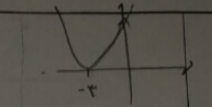
د) $y = \frac{1}{x^2} \rightarrow$



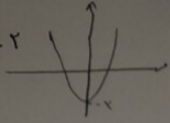
الف) $y = (x-1)^2$



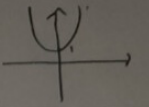
ب) $y = (x+2)^2$



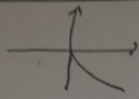
ج) $y = x^2 - 2$



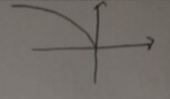
د) $y = x^2 + 1$



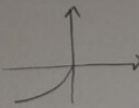
الف) $y = -\sqrt{x}$



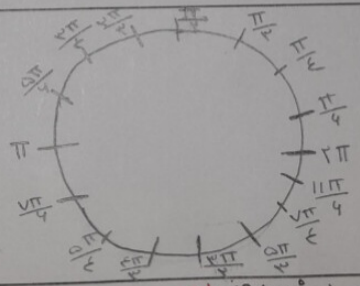
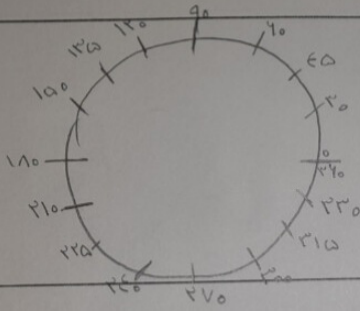
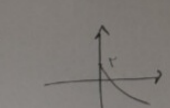
ب) $y = \sqrt{x}$



ج) $y = -\sqrt{x}$



د) $y = -\sqrt{x} + 2$



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