

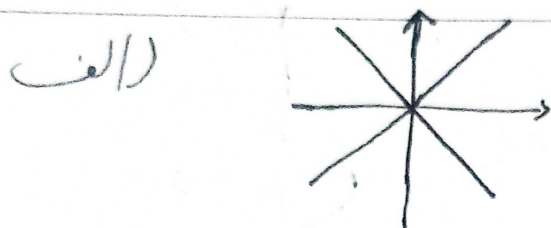
نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره کلاس دبیر: B

$$a^2 + 3 = 4a \Rightarrow a^2 - 4a + 3 = 0 \Rightarrow (a-3)(a-1) = 0$$

$$a = 3$$

$$a = 1$$

به ازای مقادیر ۳ و ۱ این رابطه تابع است



تابع نیست ✓

ب)



تابع است ✓

الف) $|y-1| = \sqrt{x-2} \Rightarrow x=4 \Rightarrow |y-1| = \sqrt{4} \Rightarrow |y-1| = 2$

$y=3$ $y=-1$
 $y^2 - y = \frac{x^2}{4} \Rightarrow x=0 \Rightarrow y^2 - y = 0 \Rightarrow y=0$ $y=1$

ج) $\sin^2 x + \cos^2 y = 1 \Rightarrow x=90^\circ \Rightarrow \cos^2 y = 0 \Rightarrow y=180^\circ$ $y=0^\circ$

د) $2xy = x \Rightarrow x=0 \Rightarrow 2y=0 \Rightarrow y=0$

الف) مثال نقض $x^2 + |y-1| = 4x \Rightarrow x=1 \Rightarrow |y-1| = 0$

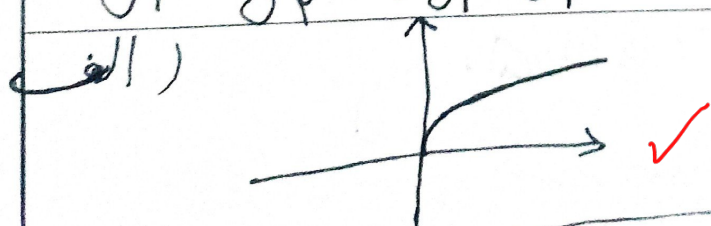
$y=4$ $y=-4$

تابع نیست

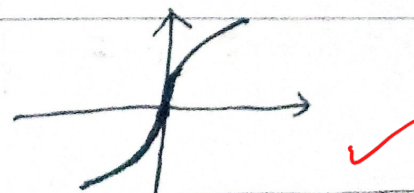
$1 + |y-1| = 4 \Rightarrow |y-1| = 3 \Rightarrow y=4$ $y=0$

ب) تعریف ریاضی $x^2 + 3x = 0 \Rightarrow \begin{cases} x_1^2 + 3x_1 = 0 \\ x_2^2 + 3x_2 = 0 \end{cases} \Rightarrow x_1 = 2x_2$

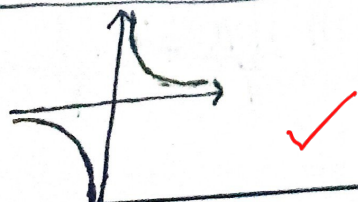
$x_1 = x_2 \Rightarrow y_1 = y_2$ تابع است



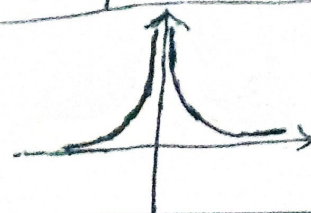
ب)



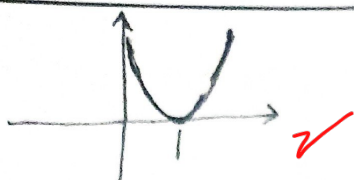
ج)



د)

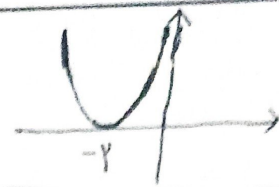


الف)



✓

ب)



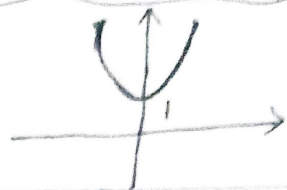
✓

ج)



✓

د)



✓

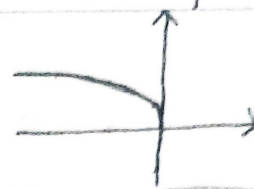
2

الف)



✓

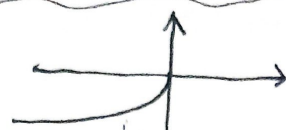
ب)



✓

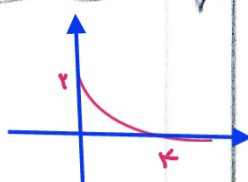
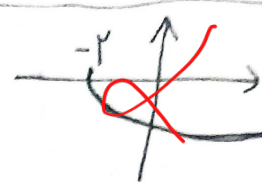
1.5

ج)



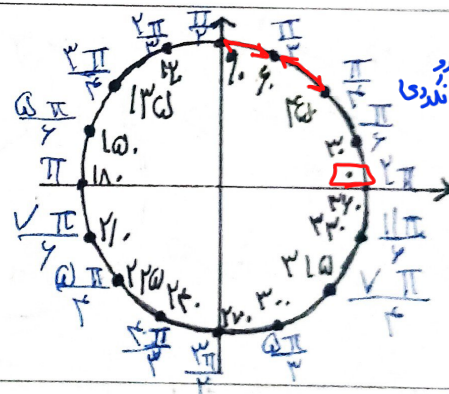
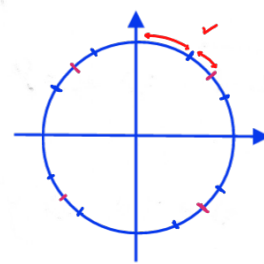
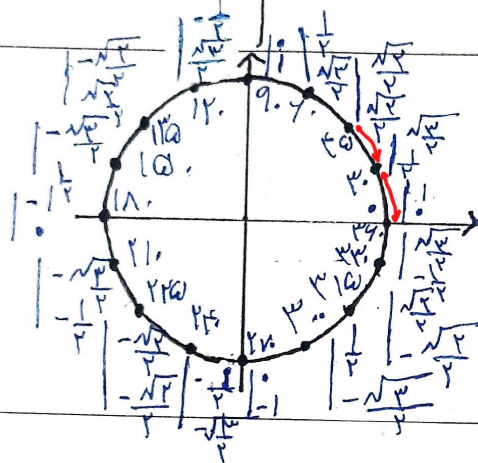
✓

د)



ناتمامه دارد رعایت کن!

1.75



ناتمامه دارد رعایت کن!

1.75

الف) $\cos 120^\circ = -\frac{1}{2}$

✓

ب) $\sin 150^\circ = \frac{1}{2}$

✓

2

ج) $\cos \frac{6\pi}{3} = \frac{1}{2}$

✓

د) $\sin \frac{11\pi}{9} = -\frac{1}{2}$

✓