

نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره کلاس: 19

الف) $a^2 = a^2 + 3$

$a^2 - 4a + 3 = 0$

$(a-1)(a-3) = 0$

$\boxed{a=1}$
 $\boxed{a=3}$

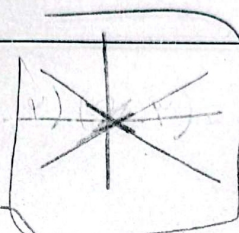
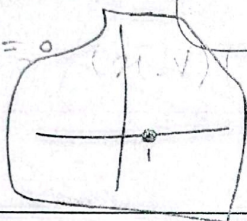
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الف) $|y| = |x|$ $y = \pm x$

تابع شیب

ب) $|y| + \sqrt{x-1} = 0$

تابع صفت



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

15

الف) $|y-1| = \sqrt{x-2}$ $x=3$ $|y-1| = 1$ $y-1 = \pm 1$ $y = 0, 2$

ب) $y^2 - y = x^2$ $x=0$ $y(y-1) = 0$ $y = 0, 1$

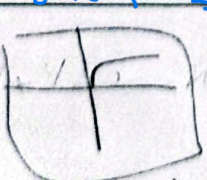
ج) $\sin^2 x + \cos^2 y = 1$ $x=0$ $\sin^2 0 = 0$ $\cos^2 y = 1$ $y = 0, \pi$

الف) $|y-1| = -x^2 + 4x$
 $y-1 = \pm(-x^2 + 4x)$
 $y = -x^2 + 4x + 1$
 $y = x^2 - 4x + 1$

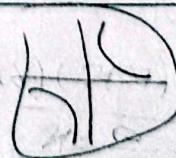
ب) $y^3 + 3x = 0$
 $y^3 = -3x$
 $y = \sqrt[3]{-3x}$

مثال تقابلی
 $x=1 \rightarrow |y-1| = 3 \rightarrow y-1 = 3 \rightarrow y = 4$
 $y-1 = -3 \rightarrow y = -2$

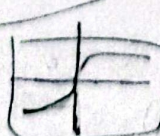
الف) $y = 3x$



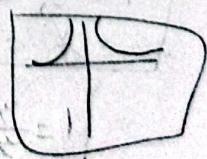
ج) $y = \frac{1}{2}x$



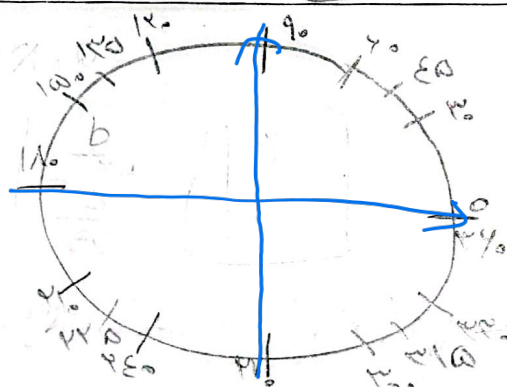
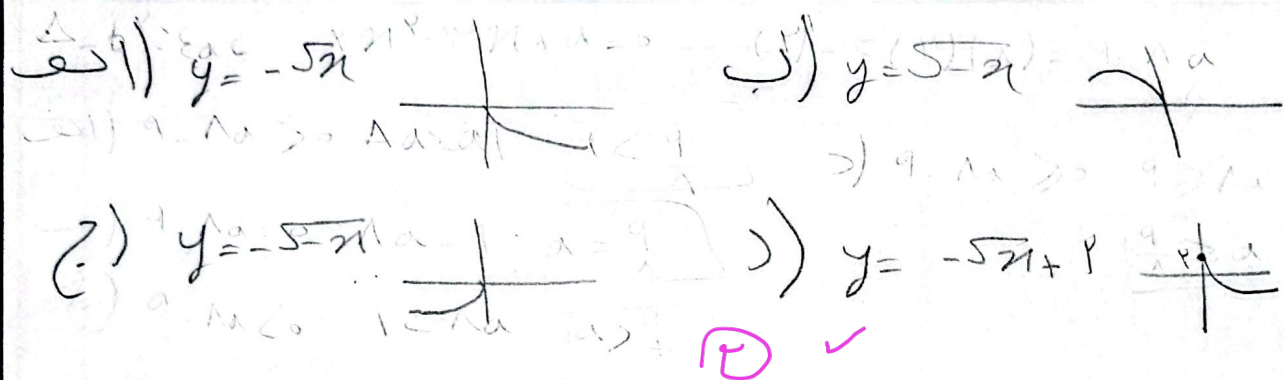
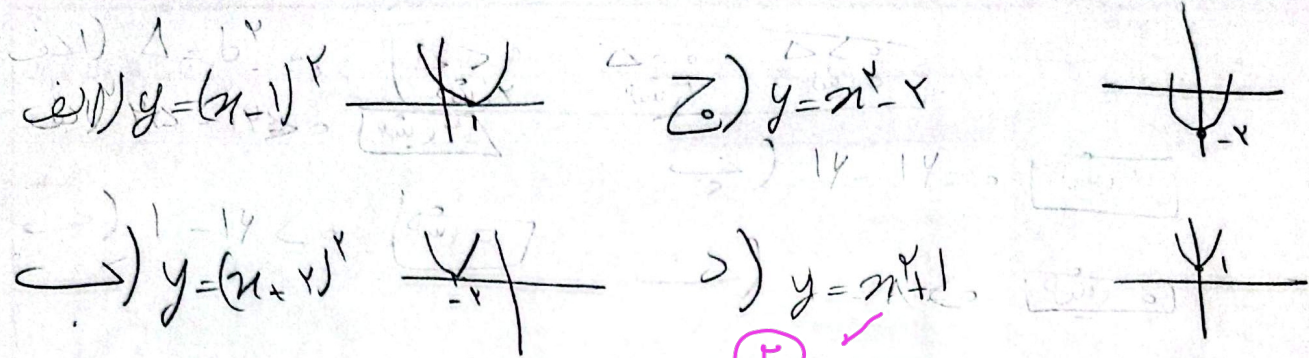
ب) $y = 3x$



د) $y = \frac{1}{2}x$

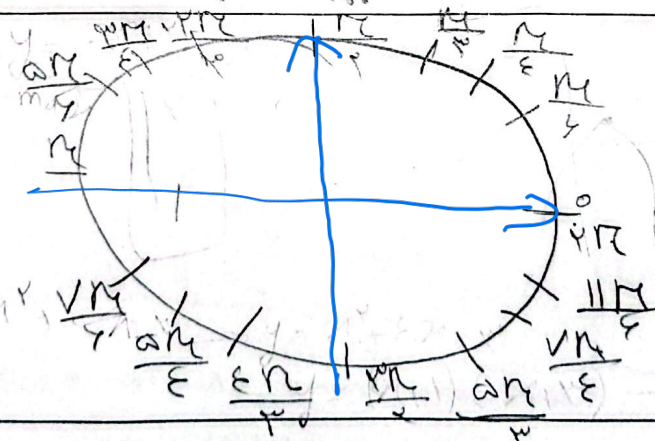


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حتمال کم شود.

1.75



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1.75

الف) $\cos 120^\circ = \boxed{-\frac{1}{2}}$ ب) $\sin 150^\circ = \boxed{\frac{1}{2}}$

ج) $\cos \frac{5\pi}{3} = \boxed{\frac{1}{2}}$ د) $\sin \frac{11\pi}{6} = \boxed{-\frac{1}{2}}$

(ب) ✓