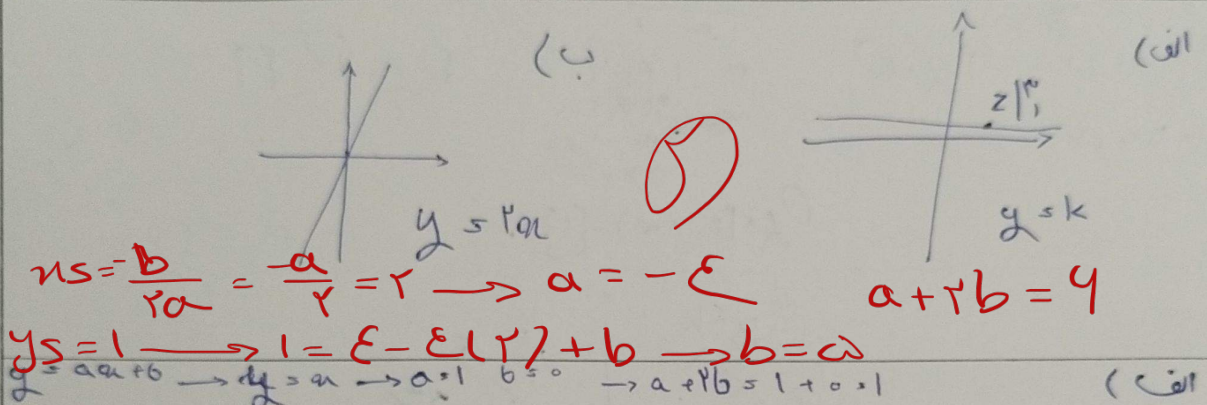
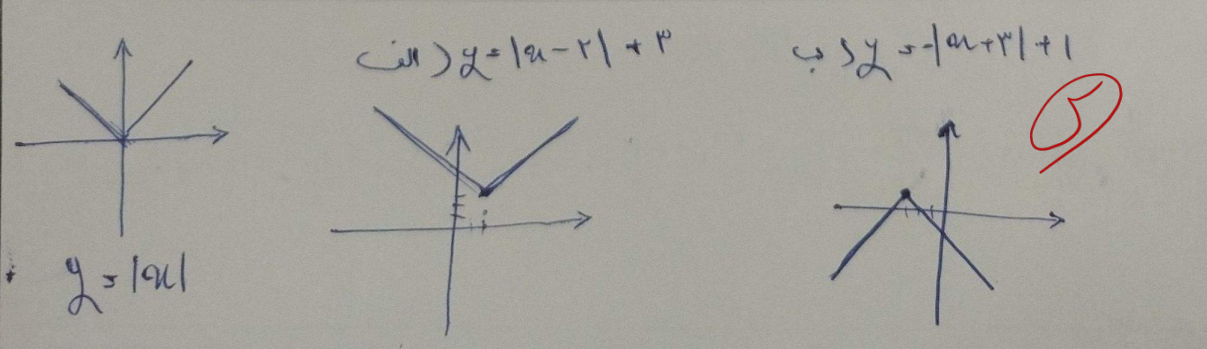
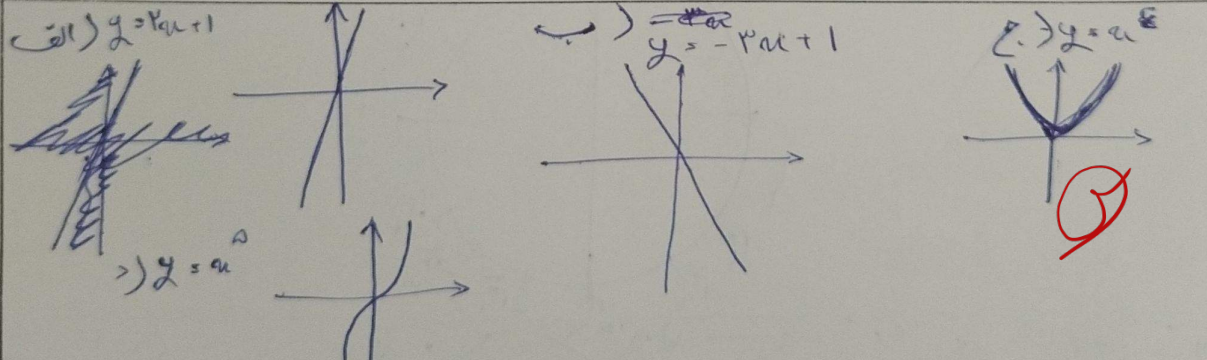


نام و نام خانوادگی ..... پسر / دختر ..... پاسخنامه تشریحی تکلیف شماره ..... کلاس ..... A

$y'' - a = 2a^2$  (الف)  $|y| + a^2 = a_1 + 2$  (ب)  $a = \cos y$  (ج)  
 $y'' + 2a^2 - a_1 = 0$   $a = 0 \rightarrow |y| = 2$   $\sqrt{a} - \varepsilon + |y - 2| = 0$   $a = \cos y$   
 $y_1'' + 2a_1^2 - a_1 = 0$   $y = 2$   $a = \varepsilon$   $\frac{\pi}{2}$   $\frac{3\pi}{2}$   
 $y_2'' + 2a_2^2 - a_2 = 0$   $\frac{1}{2} \rightarrow$  تابع  
 $y_2'' + 2a_2^2 - a_2 = y_1'' + 2a_1^2 - a_1 \rightarrow y_2'' - y_1'' = y_1' - y_2' \rightarrow y_2 = y_1$



$y = a^2 + aa + b$   $a + 2b = \frac{1}{2} + 12 = \frac{25}{2} / a$   
 $\rightarrow \frac{1}{2}$   $-b = \varepsilon a$   $b = -\varepsilon a$   
 $1 = \frac{1}{2} + \frac{1}{2}a + b \rightarrow \frac{1}{2}a + b = -\frac{1}{2}$   $\frac{-b}{2a} = \frac{1}{2} \rightarrow a = \frac{1}{2}$



$y = \frac{a + \varepsilon}{a^2 - \varepsilon a}$  (الف)  $y = \frac{a + \varepsilon}{a^2 - \sqrt{a-1}\varepsilon}$  (ب)  $y = \frac{a + \varepsilon}{a^2 + a + \varepsilon}$  (ج)  $y = \frac{a + \varepsilon}{a^2 - \varepsilon a^2}$  (د)

$a(a-2) \neq 0$   
 $D_f = \mathbb{R} - \{1, 0\}$

$\Delta = b^2 - 4ac$   
 $3\varepsilon^2 - 4\varepsilon$   
 $\varepsilon = -1$   
 $\Delta = 1 - 14$   
 $\varepsilon = -14$   
 $D_f = \mathbb{R}$

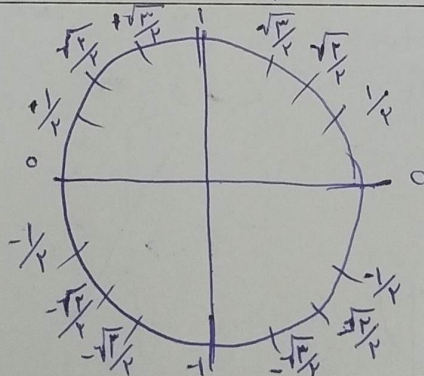
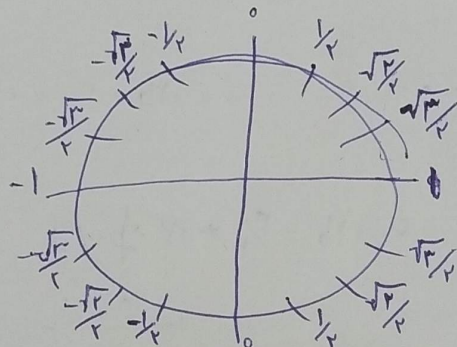
$a^2 - \varepsilon a^2 \neq 0$   
 $a^2(a-1) \neq 0$   
 $D_f = \mathbb{R} - \{0, 1, -1\}$

$y = \sqrt{1-a} + \sqrt{a-1}$  (الف)  $y = \frac{\sqrt{a+1}}{a^2+1}$  (ب)  $y = \frac{\sqrt{a-1}}{a-1}$  (ج)  $y = \frac{\sqrt{a+1}}{\sqrt{a+1} + a^2}$  (د)

$1-a \geq 0$   $a-1 \geq 0$   
 $a \leq 1$   $a \geq 1$   
 $D_f = \mathbb{R}$

$\sqrt{a-1}$   
 $a-1 \neq 0$   
 $a \neq 1$   
 $a-1 \geq 0$   
 $a \geq 1$   
 $D_f = [1, +\infty) - \{1\}$

$D_f = \mathbb{R} - \{0\}$



$\frac{11\pi}{12} = 165^\circ$   $\cos 165^\circ = -\frac{1}{4}$   $\sin ? = \frac{1}{4} \rightarrow \sin \frac{11\pi}{12} = \frac{1}{4}$  (الف)

$\frac{11\pi}{12} = 165^\circ$   $\cos 165^\circ = -\frac{\sqrt{3}}{4}$   $\sin ? = \frac{\sqrt{3}}{4} \rightarrow \sin \frac{11\pi}{12} = \frac{\sqrt{3}}{4}$  (ب)