

نام و نام خانوادگی ... آ. باجهتیا ... پاسخنامه تشریحی تکلیف شماره ۲ ... کلاس ... دقت ... B ...

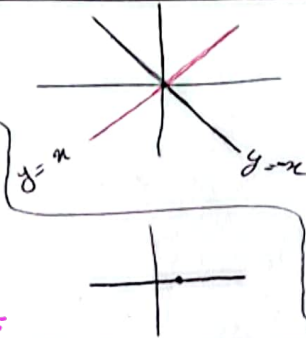
$$fa = a^2 + 3 \rightarrow a^2 - fa + 3 = 0 \rightarrow (a-1)(a-3)$$

1, 3

2 ✓

$$|y| = |x| \quad y = x \quad y = -x$$

$$|y| + \sqrt{x-1} = 0 \rightarrow \begin{cases} x=1 \\ y=0 \end{cases}$$



1, 5

$$|y-1| = \sqrt{x-2} \quad x=6 \quad (y-1)=2 \quad y=3, -1 \quad \text{X}$$

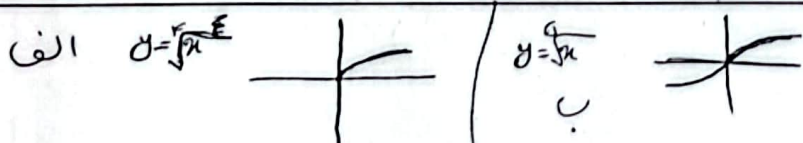
$$y^5 - y = \frac{x^2}{y} \quad y(y^4 - 1) = 0 \quad y(y^2 - 1)(y^2 + 1) = 0 \quad y=0, 1, -1$$

$$\sin^2 x + \cos^2 y = 1 \quad \sin^2 x = 0 \quad x=0 \quad \cos \frac{y}{2} = \pm 1 \quad y=0, \pm 2\pi$$

$$x^2 y = x \quad x=0 \quad y=1R \quad \text{X}$$

$$x^2 + |y-1| = \frac{x}{4} \quad x=1 \quad |y-1|=3 \quad y=4, -2 \quad \text{X}$$

$$y^5 + 3x = 0 \quad x=-1 \rightarrow y^5 = 3 \quad y = \sqrt[5]{3} \quad \text{✓}$$



2 ✓

الف		ب		٦
ج		د		
الف		ب		٧
ج		د		
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الف	$\cos 120^\circ = -\frac{1}{2}$	ب	$\sin 30^\circ = \frac{1}{2}$	١٠
ج	$\cos \frac{5\pi}{6} = -\frac{1}{2}$	د	$\sin \frac{11\pi}{6} = -\frac{1}{2}$	