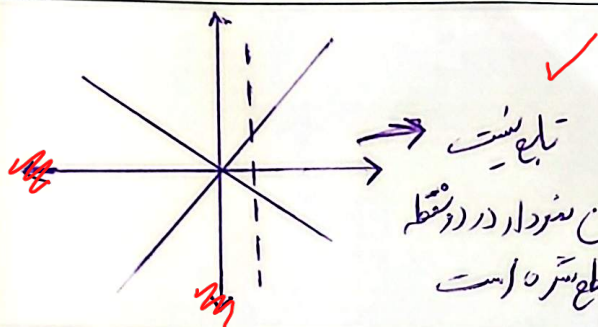


نام و نام خانوادگی: ... پاسخنامه تشریحی تکلیف شماره ۲ ... کلاس: ...

$$F = \{ (0, 4a), (1, a^2 + 3), (2, 3a) \}$$

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



چون مجموع درجه‌های ضرایب صفر است
پس هر دو عبارت صفر هستند
 $|y|=0 \Rightarrow y=0$
 $\sqrt{x}=0 \Rightarrow x=0$
 $u=1$

تابع هست یا نیست؟

$$|y-1| = \sqrt{x+2} \Rightarrow |y-1| = \sqrt{2-2} \Rightarrow |y-1| = 0 \Rightarrow y=1$$

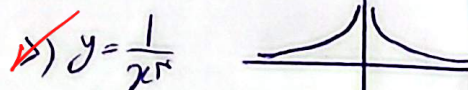
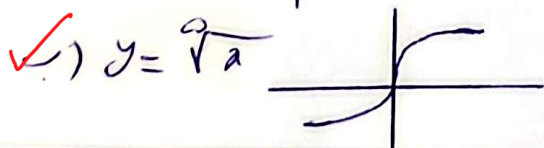
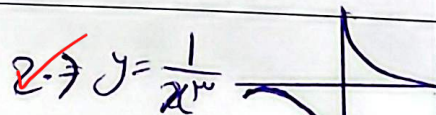
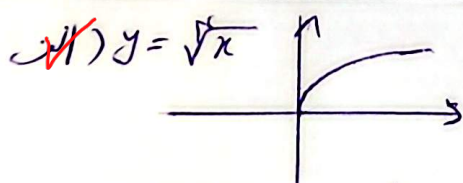
$$y^2 - y = \frac{x^2}{4} \xrightarrow{x=0} y^2 - y = 0 \Rightarrow y(y-1) = 0 \Rightarrow y=0 \text{ or } y=1$$

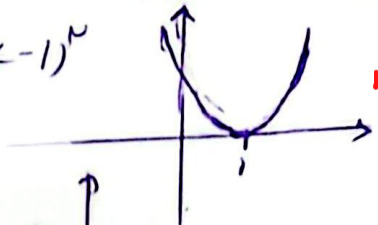
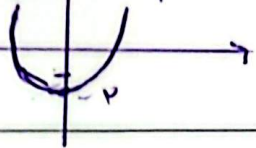
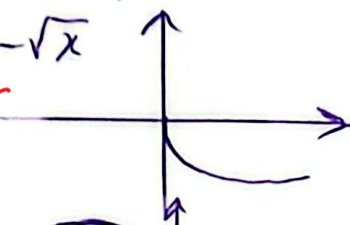
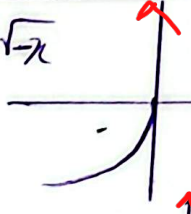
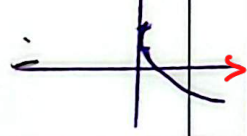
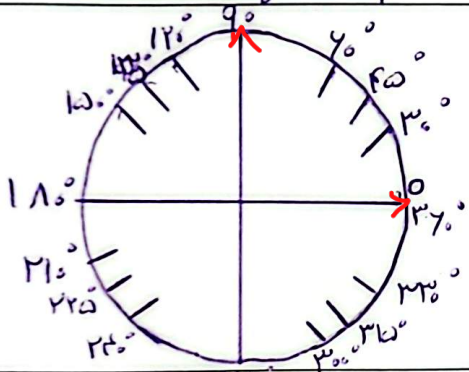
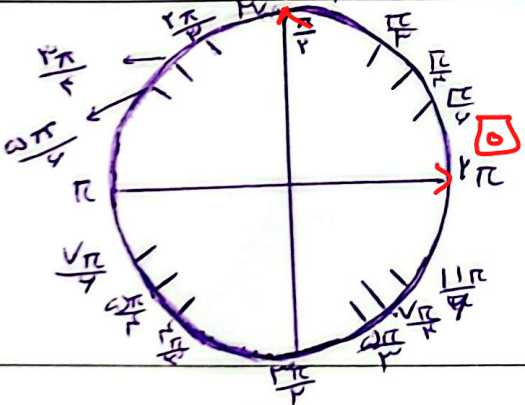
$$\sin^2 u + \cos^2 \frac{y}{4} = 1 \xrightarrow{x=0} \sin^2 u + \cos^2 \frac{y}{4} = 1 \Rightarrow \cos^2 \frac{y}{4} = 0 \Rightarrow \frac{y}{4} = \frac{\pi}{2} \Rightarrow y = 2\pi$$

$$2xy = 2 \xrightarrow{x=0} 2 \times 0 \times y = 0 \Rightarrow y = 1R$$

$$x^2 + |y-1| = 4x \xrightarrow{x=1} 1 + |y-1| = 4 \Rightarrow |y-1| = 3 \Rightarrow y-1 = 3 \text{ or } y-1 = -3$$

$$y_1^2 = -3x \Rightarrow y_1^2 = y_2^2 \Rightarrow y_1 = y_2 \Rightarrow \text{تابع است}$$



الف) $y = (x-1)^2$ ✓  ب) $y = (x+2)^2$ ✓ 	٢
٢) $y = x^2 - 2$ ✓  ٣) $y = x^2 + 1$ ✓ 	٦
الف) $y = -\sqrt{x}$ ✓  ب) $y = \sqrt{-x}$ ✓  ٢) $y = -\sqrt{x}$ ✓  ٣) $y = -\sqrt{x+2}$ ✓ 	٧
	٨
	٩
الف) $\cos 120^\circ = -\frac{1}{2}$ ✓ ب) $\sin 120^\circ = \frac{\sqrt{3}}{2}$ ✓ ٢) $\cos \frac{5\pi}{6} = -\frac{\sqrt{3}}{2}$ ✓ ٣) $\sin \frac{11\pi}{6} = -\frac{1}{2}$ ✓	١٠