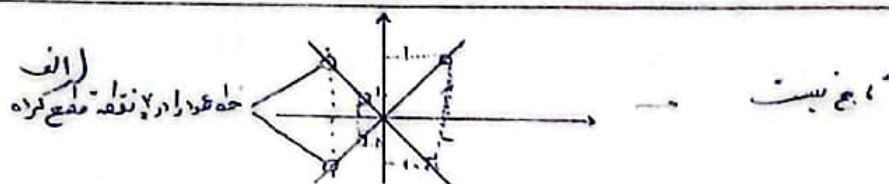


نام و نام خانوادگی فریاد پاسخنامه تشریحی تکلیف شماره ۲... کلاس دهم... سر B

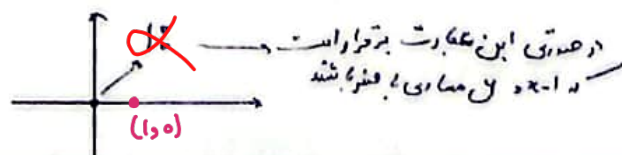
$$a^2 + 3 = 4a \rightarrow a^2 - 4a + 3 = 0 \rightarrow a + b + c = 0 \rightarrow \begin{cases} 1 \\ 1 \end{cases} \rightarrow a = 3, 1$$

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ب) $|y| + \sqrt{x-1} = 0$
 $\{ (1, 0) \}$

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

ب) $y^4 - y = \frac{x^5}{y} \xrightarrow{x=0} y^4 - y = \frac{0}{y} = 0 \rightarrow y(y^3 - 1) = 0 \rightarrow y = 0$ یا $y = 1$

ج) $\sin^2 x + \cos^2 \frac{y}{4} = 1 \rightarrow \sin^2 45 + \cos^2 \frac{y}{4} = 1 \rightarrow \frac{1}{4} + \cos^2 \frac{y}{4} = 1 \rightarrow \cos^2 \frac{y}{4} = \frac{3}{4} \rightarrow \cos \frac{y}{4} = \pm \frac{\sqrt{3}}{2}$
 $\frac{y}{4} = 45, 315 \Rightarrow y = 180, 1260$

د) $2xy = x \rightarrow 2x \times y = 0 \rightarrow 0 = 0 \rightarrow y = 12$

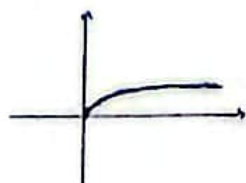
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۱, ۱, ۷, ۵

الف) $x^2 + |y-1| = 4x \rightarrow 1 + |y-1| = 4 \rightarrow |y-1| = 3 \rightarrow y = -2, 4$

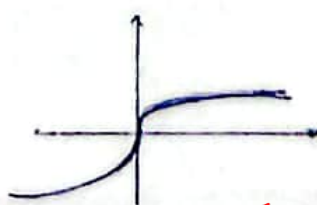
ب) $y^4 + 2x = 0 \rightarrow y^4 = -2x \rightarrow y = \sqrt[4]{-2x}$ برای هر یک از مقادیر x هست

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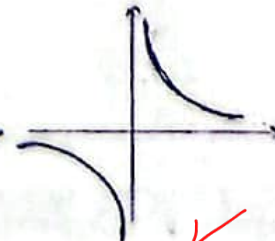
الف) $y = \sqrt{x}$



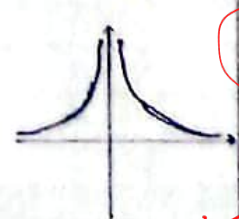
ب) $y = \sqrt[3]{x}$

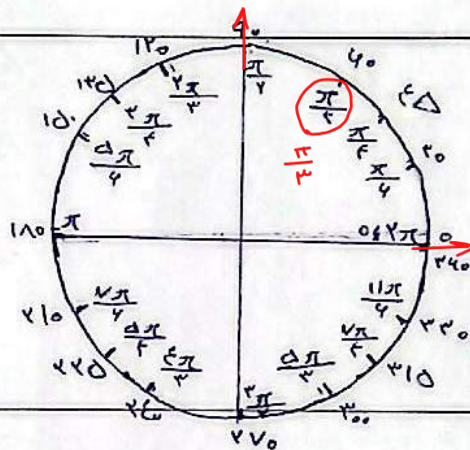
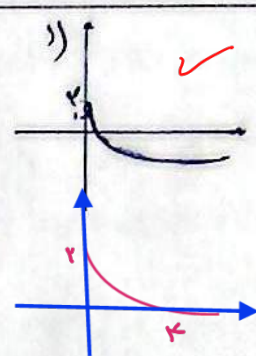
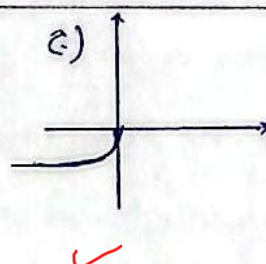
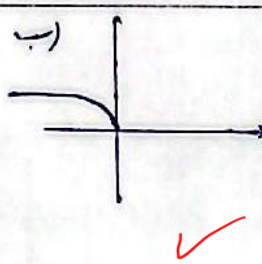
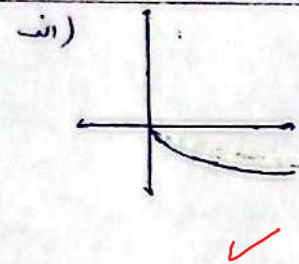
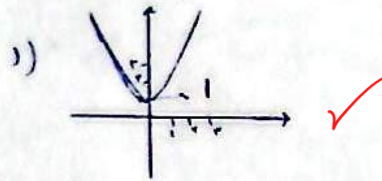
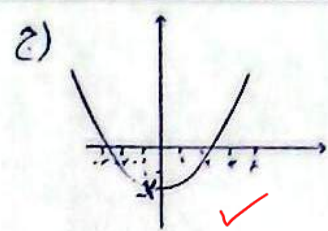
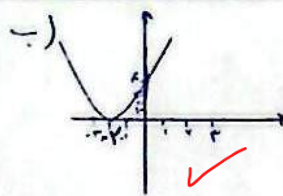
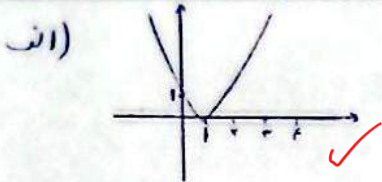


ج) $y = \frac{1}{x^3}$



د) $y = \frac{1}{x^4}$

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در دایره بالا کشیده شده

الف) $\cos 120^\circ \rightarrow \left| \begin{smallmatrix} \cos \\ \sin \end{smallmatrix} \right| \rightarrow \cos 120^\circ = -\frac{1}{2}$ ✓

ب) $\sin 150^\circ \rightarrow \left| \begin{smallmatrix} \cos \\ \sin \end{smallmatrix} \right| \rightarrow \sin 150^\circ = \frac{1}{2}$ ✓

ج) $\cos \frac{4\pi}{3} = \cos 240^\circ \rightarrow \left| \begin{smallmatrix} \cos \\ \sin \end{smallmatrix} \right| \rightarrow \cos 240^\circ = -\frac{1}{2}$ ✓

د) $\sin \frac{11\pi}{6} = \sin 330^\circ = -\frac{1}{2}$ ✓