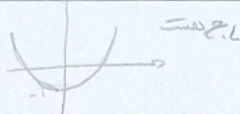
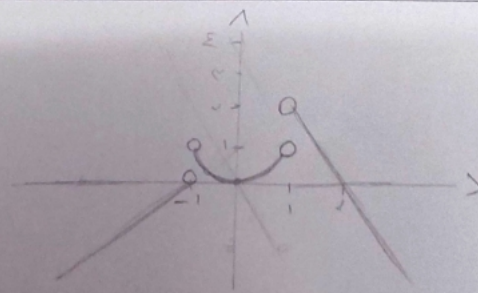
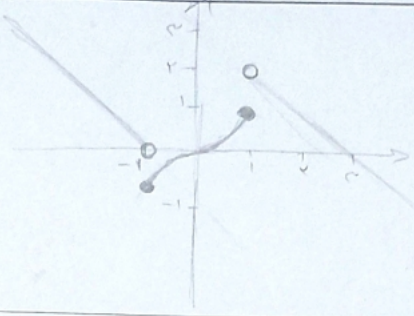
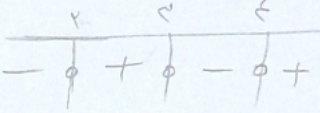
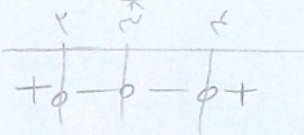
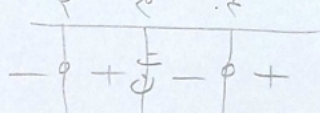
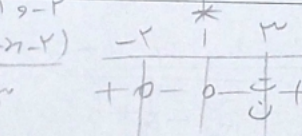


نام و نام خانوادگی: کلاس: شماره: پاسنامه تشریحی تکلیف شماره: (ج)	الف) $y^3 = 2x^2 - 1 \rightarrow y_1^3 - 2x_1^2 + 1 = 0$ $y_2^3 - 2x_2^2 + 1 = 0 \rightarrow x_1 = x_2 \rightarrow y_1^3 = y_2^3 \rightarrow y_1 = y_2$ تابع نیست ب) $y^2 + y = 2x^2 - 1 \rightarrow y_1^2 + y_1 - 2x_1^2 + 1 = 0$ $y_2^2 + y_2 - 2x_2^2 + 1 = 0 \rightarrow x_1 = x_2 \rightarrow y_1^2 + y_1 = y_2^2 + y_2 \Rightarrow y_1 = y_2$ تابع نیست	الف) $y = x^2 - 1$  تابع نیست ب) $x + y = x^2 + 1 \rightarrow x = 1 \rightarrow y = \pm 1$ تابع نیست ج) $y_1^2 + x_1^2 - 2x_1 - 1 = 0$ $y_2^2 + x_2^2 - 2x_2 - 1 = 0 \rightarrow x_1 = x_2 \rightarrow y_1^2 = y_2^2 \rightarrow y_1 = y_2$ تابع نیست	الف) $\frac{\sin \frac{\pi}{6}}{\cos \frac{\pi}{6}} = \frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}} = \sqrt{3}$ ب) $\cot \frac{\sqrt{3}\pi}{4} = \frac{\cos \frac{\sqrt{3}\pi}{4}}{\sin \frac{\sqrt{3}\pi}{4}} = \frac{-\frac{\sqrt{3}}{2}}{-\frac{1}{2}} = \sqrt{3}$ ج) $\tan 60^\circ = \frac{\sin 60^\circ}{\cos 60^\circ} = \frac{\frac{\sqrt{3}}{2}}{\frac{1}{2}} = \sqrt{3}$ د) $\cot 150^\circ = \frac{\cos 150^\circ}{\sin 150^\circ} = \frac{-\frac{\sqrt{3}}{2}}{\frac{1}{2}} = -\sqrt{3}$ تعریف نشده	الف) $\sin \alpha = \frac{1}{2} \quad \alpha = \left\{ \frac{\pi}{6}, \frac{5\pi}{6} \right\}$ ب) $\cos \alpha = \frac{\sqrt{2}}{2} \quad \alpha = \left\{ \frac{\pi}{4}, \frac{7\pi}{4} \right\}$	$f(x) = \begin{cases} -2x+4 & x > 1 \\ x^2 & -1 < x < 1 \\ x+1 & x < -1 \end{cases}$ 
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$f(x) = \begin{cases} -x+2 & x > 1 \\ x^2 & -1 \leq x \leq 1 \\ -x-1 & x < -1 \end{cases}$		۶
الف) $y = (x-2)(x-3)(x-4)$ $\begin{matrix} +2 & +3 & +4 \end{matrix}$		۷
ب) $y = (x-2)(x-3)^2(x-4)$		۸
الف) $y = \frac{(x-2)(x-4)}{x-3}$ $\begin{matrix} +2 & +4 \\ x-3 \end{matrix}$		۹
ب) $y = \frac{x^2+2x+2}{x^2-6x+2}$		۱۰