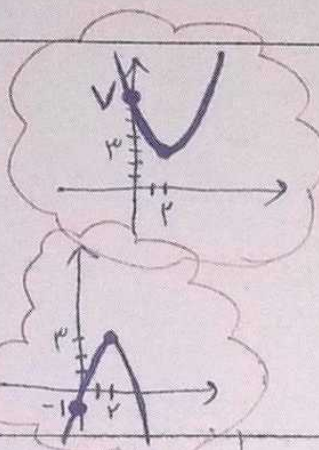


14, 15

نام و نام خانوادگی: حسین رضایی پاسخنامه تشریحی تکلیف شماره ۱۲... کلاس: دوازدهم

الف) $y = x^2 - 6x + 1$

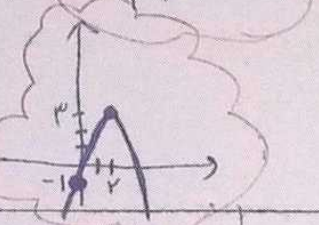
$a > 0$
 $\frac{-b}{2a} = \frac{6}{2} = 3$
 $\Delta = 36 - 4 = 32 > 0$
 $x_1 = 3 - \sqrt{8}$
 $x_2 = 3 + \sqrt{8}$



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ب) $y = -x^2 + 6x - 1$

$a < 0$
 $\frac{-b}{2a} = \frac{-6}{-2} = 3$
 $\Delta = 36 - 4 = 32 > 0$
 $x_1 = 3 - \sqrt{8}$
 $x_2 = 3 + \sqrt{8}$



الف) $2x^2 + (m+1)x + \frac{1}{2}m + 2 = 0$

$\Delta \geq 0 \rightarrow m^2 + 4m - 14 \geq 0 \rightarrow m \leq -7 \text{ or } m \geq 2$

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$m \geq 2$
 $m^2 + 4m - 14 \geq 0 \rightarrow m \geq 2$

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$m \leq -7$
 $m^2 + 4m - 14 \geq 0 \rightarrow m \leq -7$

الف) $y = (m-2)x^2 - 2(m+1)x + 6$

$\Delta \geq 0 \rightarrow m^2 - 4m + 14 \geq 0$
 $\Delta = 16 - 56 = -40 < 0$
 $a > 0 \rightarrow m > 2$
 $a < 0 \rightarrow m < 2$

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$\frac{2x^2}{x} - (2 \sin \alpha) x + \frac{1}{x} \geq 0$

$\Delta \geq 0 \rightarrow 4 \sin^2 \alpha - 4 \geq 0 \rightarrow \sin^2 \alpha \geq 1 \rightarrow \sin \alpha = \pm 1$

$\cos \alpha \geq 0 \rightarrow \alpha \in [0, \frac{\pi}{2}]$

$$y = \frac{(r_{n+1})(n-1) \cdot (r_{n-2})(n+1)}{(r_n^2 - r_{n-1})(r_n^2 - r_{n-2})} = \frac{(n-1)}{(n+1)(1-r^2)} \quad \text{⑤}$$

$$\frac{Y \wedge Z}{PE}$$

$$\begin{cases} \max \rightarrow C - b^T x \\ \Delta - \frac{149}{-1E} x \end{cases} \rightarrow 4x^1 + 149x^2 \leq 0 \quad \left\{ \begin{array}{l} (1 - 1x) \\ (149 + 1) \end{array} \right.$$