

نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره کلاس ۱۲	
$y = x^2 - 4x + 4$ $-\frac{b}{2a} = 2 \Rightarrow y_3 = 3 \quad \frac{1}{2} \cdot 2 \cdot 3 = 3$ $y = -x^2 + 4x - 4$ $-\frac{b}{2a} = 2 \Rightarrow y_3 = 3 \quad \frac{1}{2} \cdot 2 \cdot 3 = 3$	۱
الف) $\Delta > 0 \rightarrow (m+1)^2 - 4(1)(\frac{1}{2}m+2) > 0 \rightarrow m^2 - 2m - 3 > 0 \rightarrow (m+3)(m-1) > 0 \rightarrow m < -3 \vee m > 1$ ب) $\Delta = 0 \rightarrow m^2 - 2m - 3 = 0 \rightarrow (m+3)(m-1) = 0 \rightarrow m = -3 \vee m = 1$ ج) $\Delta < 0 \rightarrow (m+3)(m-1) < 0 \rightarrow -3 < m < 1$ د) $\Delta \geq 0 \rightarrow (m+3)(m-1) \geq 0 \rightarrow m \leq -3 \vee m \geq 1$	۲
الف) $\Delta > 0 \rightarrow (-2m-2)^2 - 4(m-2)(14) > 0 \rightarrow 4m^2 - 44m + 144 > 0 \rightarrow$ سه نوار $p > 0 \rightarrow \frac{c}{a} > 0 \rightarrow \frac{14}{m-2} > 0 \rightarrow m > 2 \rightarrow m > 2$ $S < 0 \rightarrow -\frac{b}{a} < 0 \rightarrow \frac{2m+2}{m-2} < 0 \rightarrow -4 < m < 2$ ب) سه نوار $p < 0 \rightarrow \frac{c}{a} < 0 \rightarrow \frac{14}{m-2} < 0 \rightarrow m < 2$ $S < 0 \rightarrow -\frac{b}{a} < 0 \rightarrow \frac{2m+2}{m-2} < 0 \rightarrow -4 < m < 2$ ج) سه نوار $p < 0 \rightarrow \frac{c}{a} < 0 \rightarrow \frac{14}{m-2} < 0 \rightarrow m < 2$ $S < 0 \rightarrow -\frac{b}{a} < 0 \rightarrow \frac{2m+2}{m-2} < 0 \rightarrow -4 < m < 2$	۳
$\frac{10}{m-2} < 0 \rightarrow m < 2$ الف) هر ناحیه از ناحیه های زیر $p < 0 \rightarrow$  ب) محورهای مختصات $x = -2$ $\frac{-b}{2a} = -2 \rightarrow \frac{2m+2}{2m-4} = -2 \rightarrow 2m+2 = -4m+8 \rightarrow 6m = 6 \rightarrow m = 1$	۴
$\Delta = 0 \rightarrow 4 \sin^2 \alpha - 4(\frac{1}{2} \cdot \frac{1}{2}) = 0 \rightarrow 4 \sin^2 \alpha - 1 = 0$ $4(\sin^2 \alpha - 1) = 0 \rightarrow \sin^2 \alpha - 1 = 0 \rightarrow \sin^2 \alpha = 1 \rightarrow \sin \alpha = 1 \rightarrow$ مستقیم $\frac{b}{2a} = \frac{2 \sin \alpha}{2 \cdot \frac{1}{2}} = \frac{2}{1} \rightarrow \frac{4}{2} = \frac{2}{1}$	۵

$$y = \frac{(x^2 - 1)(x^2 - 1 - a)}{1 - x^2} \rightarrow \frac{x^4 - 1x^2 - 1x^2 + 1 + a}{1 - x^2} = \frac{x^4 - 2x^2 + 1 + a}{1 - x^2}$$

$$m \rightarrow x_3 = \frac{b}{a} = \frac{1}{p} \rightarrow y_3 = -4\left(\frac{1}{p}\right)^2 + 13\left(\frac{1}{p}\right) + a = \frac{219}{p^2}$$

$$V_S = V + \omega P \rightarrow \frac{V_{m+9}}{m} = \frac{-10}{m} + V \rightarrow \epsilon m = 14 \rightarrow m = \epsilon$$

$$\alpha + \beta = S - P \rightarrow \left(\frac{1}{p}\right)^2 - 2\left(-\frac{1}{p}\right) = \frac{11}{\epsilon}$$

$$\frac{\epsilon a + \beta^2}{\omega \beta^2} \xrightarrow{\text{نقل}} \frac{\epsilon a}{\omega \beta^2} + \frac{\beta^2}{\omega} \neq \frac{\epsilon a}{\frac{1}{\omega}} + \frac{\beta^2}{\omega} \Rightarrow \frac{\alpha^2}{\omega} + \frac{\beta^2}{\omega}$$

$$dB = \frac{c}{a} = \frac{1}{2} \rightarrow \beta = \frac{1}{2}$$

$$\frac{S^2 - P^2}{a} = \frac{9\omega}{a} = 14$$

$$\epsilon \rightarrow C = \epsilon$$

$$n=2 \rightarrow y=2x+1 \rightarrow y_2=18 \rightarrow y_1 = \epsilon a + \beta b + \epsilon \rightarrow \epsilon a + \beta b = 10 \rightarrow a + b = 10$$

$$n=-3 \rightarrow y_2=2 \rightarrow y_1 = 9a - 3b + \epsilon \rightarrow 9a - 3b + \epsilon = \epsilon \rightarrow 3a - b = 0 \rightarrow a = b$$

$$3a + 3a = 10 \rightarrow a = 1, b = 3 \rightarrow y_1 = a^2 + \beta b + \epsilon \rightarrow x_3 = \frac{b}{a} = \frac{3}{1} = 3$$

$$x = x_1 + (m+1)x_2 + (m+4) \rightarrow x_1 + m x_2 + 4x_2 = x$$

$$\Delta = 0 \rightarrow m^2 - \epsilon(m+4) = 0 \rightarrow m^2 - 11m - 44 = 0 \rightarrow (m-11)(m+4) = 0 \rightarrow m = 11$$

$$x_3 = \frac{b}{a} = \frac{-m}{\epsilon} \rightarrow x_3 > 0 \rightarrow \frac{-m}{\epsilon} > 0 \rightarrow m < 0$$

$$m = -11$$

$$x_3 > 0 \rightarrow y_3 > 0$$