

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad m = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$b) \quad \frac{1 \pm \sqrt{1 - 12}}{2} \quad \Delta < 0$$

$$c) \quad \frac{5 \pm \sqrt{25 - 12}}{2} \quad \Delta < 0$$

$$d) \quad \frac{1 \pm \sqrt{1 - 12}}{2} \quad \Delta < 0$$

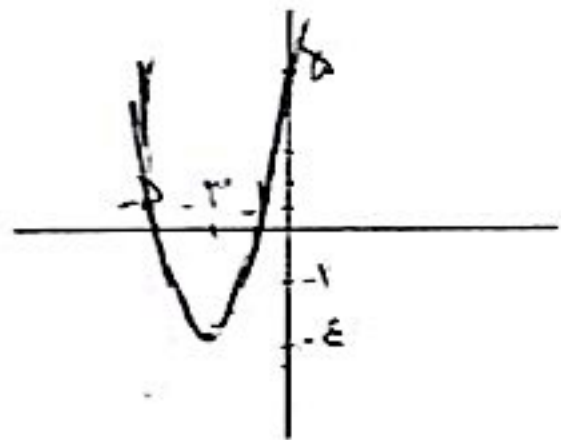
$$m^2 - 3m + a = 0 \quad a = 1 \quad m^2 - 3m + 1 = 0 \quad (m-2)(m-1) = 0 \quad m < \frac{1}{2} \quad (1-\infty) \quad \Delta < 0$$

$$m^2 - 3m + \frac{9}{4} = 0 \quad 4(m^2 - \frac{3}{2}m + \frac{9}{4}) \quad m = \frac{3}{2}$$

$$m^2 - 3m + \frac{9}{4} = 0 \quad b^2 - 4ac = 0 \quad b^2 = 4ac \quad 9 = 4 \times 3 \times \frac{9}{4}$$

$$b) \quad \Delta = 0 \quad c) \quad \Delta < 0 \quad a < 4 \times 3 \times m \quad (m > \infty)$$

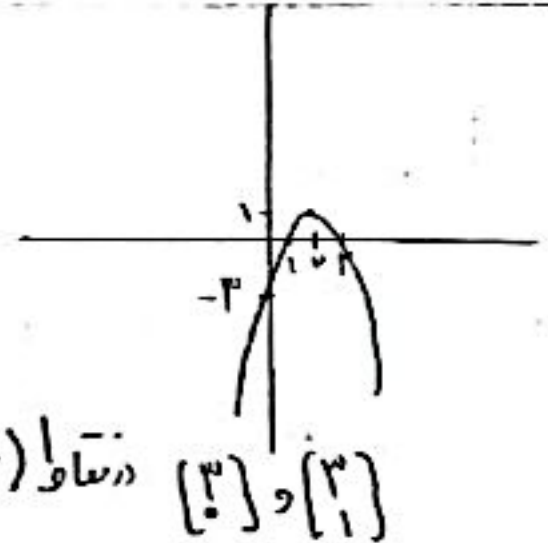
$$y = m^2 + 4m + 2 \quad m = \frac{-b}{2a} = \frac{-4}{2} = -2 \quad y_A = 9 - 12 + 2 = -1 \quad (m+1)(m+2) = 0 \quad m < -2$$



$$y = -m^2 + 6m - 3 \quad m = \frac{-b}{2a} = \frac{-6}{-2} = 3$$

$$y = -9 + 18 - 3 = 6$$

$$c) \quad y = m^2 + 6m + 3 \quad (m+3)(m+1) \quad m = \frac{-b}{2a} = \frac{-6}{2} = -3 \quad m = \frac{-b}{2a} = \frac{-6}{2} = -3$$



$$m^2 - 3m - 2 = 0$$

$$3m^2 - (3 \times 2 - 2) = 13$$

$$3m^2 - (3 \times 2 - 2) = \frac{4 \times 13}{-12}$$

$$\text{جمع} = \frac{-b}{a} = \frac{3}{1} = 3 \quad \text{مرب} = \frac{c}{a} = \frac{-2}{1} = -2$$

نام خانوادگی ..... دریا بیاض ..... با شماره ثبتی تکلیف، شماره ..... ا ..... کلاس ..... ۸ ..... ۸۰۰۰۰۰۰۰

$$(الف) (n-2)(n-4)=0 \quad n \begin{cases} 2 \\ 4 \end{cases}$$

$$(ب) (n+1)(n+7)=0 \quad n \begin{cases} -1 \\ -7 \end{cases}$$

$$(الف) (n-2)(n-3)=0 \quad n \begin{cases} 2 \\ 3 \end{cases}$$

$$(ب) (n-7)(n+2)=0 \quad n = \begin{cases} 7 \\ -2 \end{cases}$$

$$(الف) \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{3 \pm \sqrt{9+16}}{2} \Rightarrow \frac{3+\sqrt{25}}{2}; \frac{3-\sqrt{25}}{2}$$

$$(ب) \frac{c \pm \sqrt{12-c}}{c} \Rightarrow \frac{c+\sqrt{12}}{c}; \frac{c-\sqrt{12}}{c}$$

$$(الف) (n-2)(n-1)=0 \quad n \begin{cases} 2 \\ 1 \end{cases} \quad \text{جواب مستقیم}$$

$$(ب) \begin{cases} n^2 + n - 12 = 0 \\ (n-2)(n+6) = 0 \end{cases} \quad n \begin{cases} \frac{3}{c} \\ \frac{-c}{c} = -1 \end{cases} \quad \text{روش ردی}$$

$$(الف) n^2 - 12n + 35 = 0 \quad (n-7)(n-5) = 0 \quad n = \begin{cases} \frac{7}{5} = 1,4 \\ \frac{5}{5} = 1 \end{cases}$$

$$(ب) n^2 - 10n + 21 = 0 \quad (n-3)(n-7) = 0 \quad n = \begin{cases} \frac{3}{7} = 0,428 \\ \frac{7}{7} = 1 \end{cases}$$