

سارا سبیلان و سنبها

الف) $m^2 - 5m - 24 = 0$
 $(m-9)(m+3) = 0$

$m=9, m=-3 \rightarrow m = \frac{9}{4} = \frac{9}{4}, m = -\frac{3}{4}$

ج) $m^2 - 4m - 12$
 $m=6, m = \frac{2}{3} / m = -2 \rightarrow m = -\frac{2}{3}$

ب) $m^2 - 1m - 9 = 0$ $(m+1)(m-9) \rightarrow m = -1, 9$

$m = 2, -\frac{1}{2}$

د) $m^2 - 5m - 24 = 0$
 $(m+2)(m-12)$
 $m = 12, m = -2$

الف) $(m+2)(m-5) \rightarrow m=5, m=-2$

ب) $m^2 + 4m + 4 = 0$
 $(m+2)(m+2) \rightarrow m = -\frac{2}{2}$
 $m = -1$

ج) $\Delta = b^2 - 4ac \rightarrow 4 - (2)(1)(1) \rightarrow 4 - 12 = -8 \rightarrow \Delta < 0$ بی جواب

د) $\Delta = b^2 - 4ac$ $4 - 2(-2)(2) \rightarrow 4 + 24 = 28$ $\frac{-2 \pm \sqrt{28}}{4}$

$A \times B = \{(1,2)(1,3)(2,2)(2,3)(3,2)(3,3)\}$

$B^T = \{(2,2)(2,3)(3,2)(3,3)\}$ $A \times B - B^T = \{(1,2)(1,3)\}$

الف) $m^2 - m - 2 \rightarrow m = 2, m = -1$

$(2,1)(2,1)(-1,-1)(-1,-1)(2,1)(-1,1)$

ب) $m^2 - m - 2$
 $m = 2, m = -1$

$a^2 - 3a + 2 \rightarrow (a-2)(a-1) \rightarrow a = 2, 1$
 $a = 1$

ج) $m = 1 \rightarrow m^2 - 1 = a + b$
 $a + b = 0$

$n = 2 \rightarrow 1 = 2a + b \rightarrow a = 1, b = -1$

$ab = -4$

$2k - 3 = 4 - 2k \rightarrow -5 = -4k \rightarrow k = \frac{5}{4}$

الف) $\rightarrow n = 0 \rightarrow y(y^2 - 4) = 3x$

ب) $n = 0 \rightarrow |y| = 3 \rightarrow y = \pm 3x$

ج) $y = \pm \sqrt{1 - \cos m} \cos m$

د) $(n+1)^2 + y^2 = 0 \rightarrow y = 0, n+1 = 0, n = -1$

الف) $\sqrt{x} + \sqrt{y} = \sqrt{x+y}$

ب) $\sqrt{x} + \sqrt{y} = \sqrt{x+y}$

الف) $m=0$ $y \rightarrow \mathbb{R}X$ ب) $\rightarrow$ با همکلیس

$$t + \frac{1}{t} = 2$$

$$t^2 + t = 2t$$

$$t^2 - 2t + 1 = 0 \quad (t-1)^2 = 0$$

$$t = 1 \quad \sqrt{\frac{m}{y}} = 1$$

$$\frac{m}{y} = 1 \rightarrow m = y \checkmark$$