

$$x^2 - 6x + 9 = 1 \Rightarrow (x - 3)^2 = 1 \Rightarrow x - 3 = \pm 1 \Rightarrow x = 4, 2 \quad \text{الف)}$$

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$$x^2 + 12x + 16 = 9 \Rightarrow (x + 4)^2 = 9 \Rightarrow x + 4 = \pm 3 \Rightarrow x = -7, -1 \quad \text{ب)}$$

$$x^2 - 5x + 6 = 0 \Rightarrow (x - 3)(x - 2) = 0 \Rightarrow x = 2, 3 \quad \text{الف)}$$

$$x^2 - 5x - 14 = 0 \Rightarrow (x - 7)(x + 2) = 0 \Rightarrow x = -2, 7 \quad \text{ب)}$$

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \Rightarrow \frac{+3 \pm \sqrt{9 + 20}}{2} = \frac{3 \pm \sqrt{29}}{2} \quad \text{الف)}$$

$$2x^2 - 5x + \frac{1}{2} = 0 \Rightarrow \frac{+5 \pm \sqrt{16 - 4}}{4} = \frac{5 \pm \sqrt{12}}{4} \quad \text{ب)}$$

$$x^2 - 3x + 2 = 0 \Rightarrow (x - 1)(x - 2) = 0 \Rightarrow x = 1, 2 \quad \text{الف)}$$

$$-1, \frac{3}{4}$$

$$\frac{1}{2}x^2 + x - 3 = 0 \Rightarrow x^2 + 2x - 6 = 0 \Rightarrow (x + 4)(x - 3) = 0 \Rightarrow x = -4, 3$$

$$5x^2 - 12x + 7 = 0 \Rightarrow x^2 - 12x + 35 = 0 \Rightarrow (x - 7)(x - 5) = 0 \Rightarrow x = 5, 7 \quad \text{الف)}$$

$$3x^2 - 10x + 7 = 0 \Rightarrow x^2 - 10x + 21 = 0 \Rightarrow (x - 3)(x - 7) = 0 \Rightarrow x = 3, 7$$

الف) $\frac{-5 \pm \sqrt{13}}{-9} =$ راديكال منفي

ب) $\frac{1 \pm \sqrt{1-16}}{4} =$ راديكال منفي

ج) $\frac{4 \pm \sqrt{16-16}}{4} =$ راديكال صفر

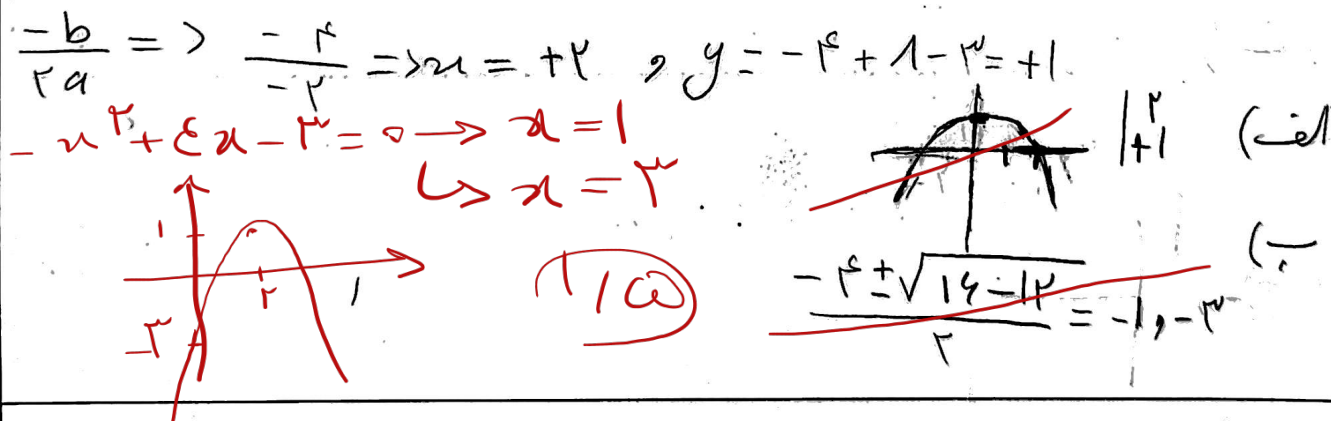
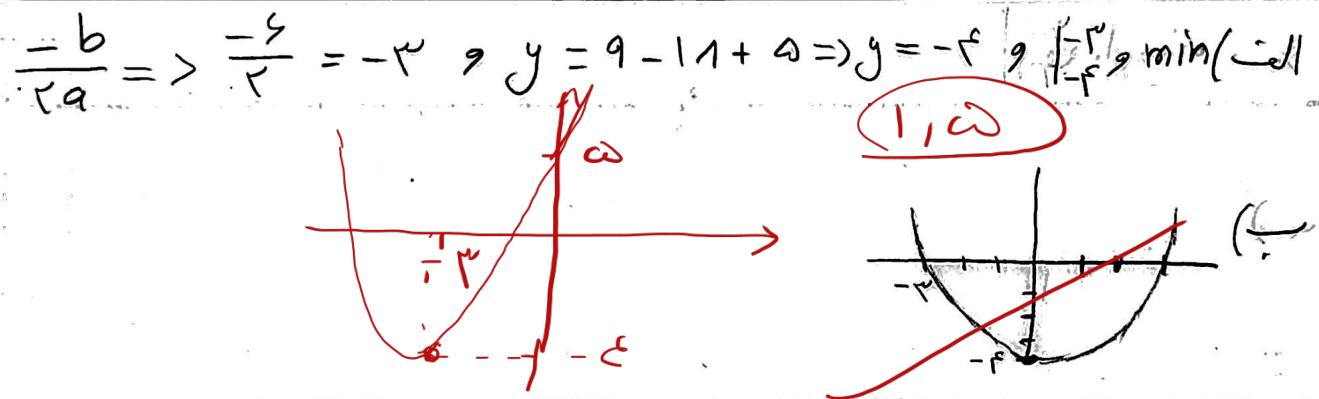
د) $\frac{+1 \pm \sqrt{1-1}}{4} =$ راديكال منفي

الف) $\frac{+3 \pm \sqrt{9-1a}}{4} \Rightarrow 9-1a > 0 \Rightarrow -1a > -9 \Rightarrow a < \frac{9}{1}$

ب) $9-1a=0 \Rightarrow -1a=-9 \Rightarrow a=\frac{9}{1}$

ج) $9-1a < 0 \Rightarrow -1a < -9 \Rightarrow a > \frac{9}{1}$

د) $9-1a \geq 0 \Rightarrow -1a \geq -9 \Rightarrow a \leq \frac{9}{1}$



الف) $\frac{-b}{a} = \frac{1+3}{1} = 4$ و $9+4=13$

ب) $\frac{c}{a} = \frac{-2}{1} = -2$ و $27+11=38$