

$$\frac{-\Delta}{c_a} = V \rightarrow \frac{c_a c - b^2}{c_a} = \frac{-12 - b^2}{-4} = V \rightarrow -12 - b^2 = -24 \rightarrow -b^2 = -12 \rightarrow b = \pm 4 \checkmark \quad (2) -1$$

$$x^2 + 2x + 3 \rightarrow \text{همیشه + ریشه ندارد} \checkmark \quad (2) -2$$

$$(t+1)^2 - 2 + -1d = 0 \rightarrow \begin{cases} t-d=0 \rightarrow t=d \\ t+3=0 \rightarrow t=-3 \end{cases} \quad \begin{aligned} 4-x^2=d \rightarrow x^2=-1 \quad \times \\ 4-x^2=-3 \rightarrow x^2=7 \rightarrow x=\pm\sqrt{7} \checkmark \end{aligned}$$

$$x, x+2 \quad S=4 \quad 2x+2=4 \rightarrow x=1 \quad \{ \text{جواب} \} (1, 3) \checkmark \quad (2) -3$$

$$(x-1)(x-2) = x^2 - 4x + 2 \rightarrow x^2 - 4x + 12 \rightarrow m = +12 \checkmark$$

$$y_a = 2a^2 + m - 1 \rightarrow 2a = a^2 + \frac{m-1}{2}$$

$$S = \frac{-b}{a} \rightarrow 2 \quad \begin{aligned} 4a - B + a + B = 4 \rightarrow 2a = 4 \rightarrow a = 2, B = 0 \\ \frac{c}{a} = 0 \rightarrow m - 1 = 0 \rightarrow m = 1 \checkmark \end{aligned} \quad (2) -4$$

$$\Delta > 0 \quad b^2 - 4ac > 0 \quad (2) -d$$

$$P=1 \rightarrow \frac{m^2-2}{-m} = 1 \rightarrow m^2-2 = -m \rightarrow m^2+m-2=0 \rightarrow \begin{cases} m=-2 \\ m=+1 \end{cases} \checkmark \checkmark \quad \begin{aligned} \Delta=0 \rightarrow \text{در صورت باطل است} \\ \text{فقط یک ریشه دارد} \end{aligned}$$

$$(aB)B=4 \rightarrow 3(B)=4 \rightarrow B=\frac{4}{3}, a=\frac{9}{2} \checkmark \rightarrow S=m=\frac{43}{12} \quad (1, 78) -y$$

$$(x-\frac{4}{3})(x-\frac{9}{2}) = x^2 - \frac{41}{12}x + 2 \rightarrow m = \frac{41}{12}$$

$$2x, x \quad S = \frac{-b}{a} = 2 \quad \{ x=4 \rightarrow x=1 \rightarrow 1, 2 \} \quad (2) -v$$

$$(x-1)(x-2) = x^2 - 4x + 2 \rightarrow m = 2 \checkmark$$

$$aB=2 \quad B=\frac{2}{a} \rightarrow B^2=\frac{4}{a^2} \rightarrow x^2+B^2$$

$$S^2 - 2pS \rightarrow 343 - 2(1)(V) \rightarrow 343 - 42 = 301 \checkmark \quad (2) -1$$

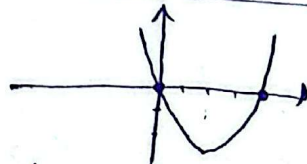
$$\frac{49}{243} \quad \frac{14}{27}$$

$$y_s = \frac{-\Delta}{f_a} \rightarrow \frac{f_a c - b^2}{f_a} \rightarrow \frac{-2d_{00}}{-f_0} = \frac{2d_{00}}{f} \rightarrow \frac{120}{2} = 60 \text{ m} \checkmark$$

9. (2)

$$-10t^2 + 40t = 0 \rightarrow 10t(-t + 4) \rightarrow t = 4 \text{ s} \checkmark$$

$$x^2 - 2x + 1 = 2x + 1 \rightarrow x^2 - 4x$$

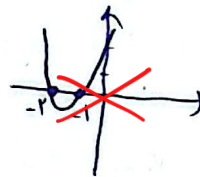
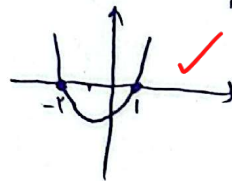


(2, -4) $\checkmark$

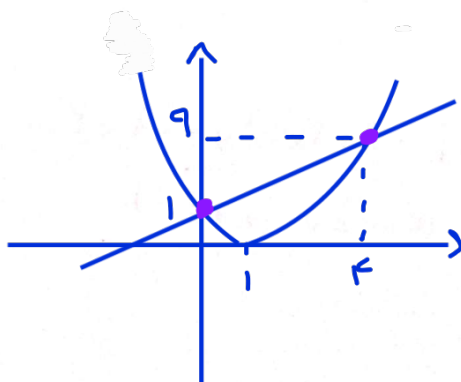
10. (4, 7, 5)

$$x^2 + 2x = x + 2 \rightarrow x^2 + x - 2$$

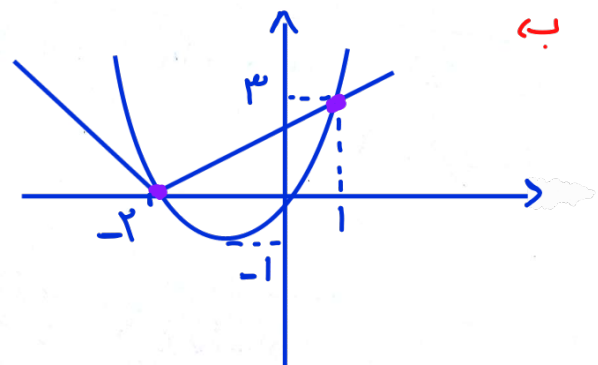
$$x^2 + 2x = -x - 2 \rightarrow x^2 + 3x + 2$$



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