

$$\frac{-b}{a} = -1 \rightarrow \frac{9}{1}$$

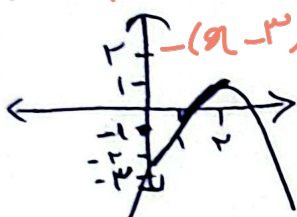
$$\frac{-\Delta}{\Delta d} = \frac{-b^2 + 4ac}{4ad} = \frac{-1^2 + 10}{1} = -1$$

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$$-(n^2 - 5n + 1) \cdot 2$$

$$\frac{-b}{r_d} = \frac{-1}{-1} = 1 \quad \checkmark$$

$$\frac{A}{F_d} = \frac{-b^2 + F_d c}{F_d} = \frac{-14 + 12}{-1} = 1$$



$n \approx 10^3$

5. செய்து

$$b_{\text{fid}}^{\text{fid}} \in \Delta \mathcal{T}_0$$

$$r_x^T - \mu_x + d = 0 \rightarrow r_x^T - \mu_x + \mu = 0$$

$x \in \mathbb{R}$

$$\Delta \rightarrow 9a - 16$$

$$x^2 - 4x + 1 = 0 \quad (x-1)(x-3)$$

$$u_x r_x + 0 = 0 \rightarrow r_x, u_x + 118 = 0$$

$$A=0 \rightarrow b^2 - 4c \rightarrow (-5)^2 - 4c = 0 \Rightarrow 4c = 9 \Rightarrow c = \frac{9}{4}$$

$$b^T - r_d c < 0$$

2.) $\Delta_2 \rightarrow d > \frac{1}{2}$
 $d \leq \frac{1}{2}$ $d > \frac{1}{2}$ $d < 0$ $d = 0$

$$x^T - YX - I = 0 \rightarrow x^T - YX = I$$

$$\bullet (x-1)^2 = 4$$

$$(x-1)^2 = x^2 - 2x + 1 = 1 + (-2x) + x^2$$

$$\Rightarrow x-1 = \pm \sqrt{2}$$

$$\Rightarrow x = \pm \sqrt{2}$$

$$x^T x - 1 = 0$$

$$x_1 = \sqrt{5} + 1$$

$$x^2 - x = 1$$

$$x_2 = 1 - \sqrt{2}$$

$$(x - \frac{1}{x})^r = x^r - x + \frac{1}{x} = 1 + \frac{1}{x} = \frac{x+1}{x} \Rightarrow (x - \frac{1}{x})^r = \frac{(x+1)^r}{x^r}$$

$$x^2 - 1 = 0 \quad x_1 = \frac{-b + \sqrt{b^2 - 4ac}}{2a} = \frac{1 + \sqrt{1 - (-1)}}{1} = \frac{1 + \sqrt{2}}{1}$$

$$x_1 = \frac{1 - \sqrt{5}}{2}$$

$$x^2 + x - 1 = 0 \quad x_1 = \frac{-b + \sqrt{b^2 - 4ac}}{2a} = \frac{-1 + \sqrt{1 - (-19)}}{2}$$

$$x_2 = \frac{1}{2} - \frac{\sqrt{2}}{2}$$

$$x^2 - 11x + 28 = 0 \Rightarrow (x - 4)(x - 7) = 0 \rightarrow x_1 = 4, x_2 = 7 \quad \text{الف} \quad 4$$

$$x^2 + 3x - 28 = 0 = (x + 7)(x - 4) = 0 \rightarrow x_1 = -7, x_2 = 4 \quad \text{ب} \quad 6$$

$$dx^2 - 12x + 7 = 0 \rightarrow x^2 - 12x + 7 = 0 = (x - 5)(x - 7) = 0 \quad \text{الف}$$

$$\Rightarrow x_1 = 5 \rightarrow \frac{5}{8} = 1 \quad \text{ب}$$

$$x_2 = 7 \rightarrow \frac{7}{8} = 1.4 \quad \text{ب}$$

$$wx^2 - 10x + 7 = 0 \rightarrow x^2 - 10x + 7 = 0 = (x - 7)(x - 3) = 0$$

$$x_1 = 7 \rightarrow \frac{7}{3} > x_2 = 3 \rightarrow \frac{7}{3} = 1 \quad \text{ب}$$

$$\text{الف) } 2x^2 - 8x + 3 = 0 \quad x_1 = 1, x_2 = \frac{3}{2} \Rightarrow \text{جميع ضارب في 2}$$

$$\text{ب) } 2x^2 + 8x + 3 = 0 \rightarrow d + c = b \quad \frac{3}{2} = 1.5$$

$$\text{ج) } 2x^2 - 8x + 1 = 0 \quad x_1 = -1, x_2 = -\frac{c}{a} = -\frac{1}{2} = -0.5$$

$$x_1 = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{8 \pm \sqrt{64 - 8}}{4} = \frac{8 \pm \sqrt{56}}{4} = \frac{8 \pm 2\sqrt{14}}{4} = \frac{4 \pm \sqrt{14}}{2}$$

$$x_2 = \frac{1}{2} - \frac{\sqrt{14}}{2} \quad \text{ب}$$

$$1) \quad x^2 + 7x + 9 = 0 \quad x_1 = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-7 \pm \sqrt{49 - 36}}{2} = \frac{-7 \pm \sqrt{13}}{2}$$

$$s^2 - 12s = \left(\frac{-b}{a}\right)^2 - 4\left(\frac{c}{a}\right) = 9 - (-4) = 13 \quad \text{الف}$$

$$= 27 + 14 = 41 \quad \text{ب}$$

$$s^2 - 12s + 9 = \left(\frac{-b}{a}\right)^2 - 4\left(\frac{c}{a}\right) = \frac{(-b)^2}{a^2} - 4\left(\frac{-bc}{a^2}\right) = \frac{b^2 + 4bc}{a^2} = \frac{b(b + 4c)}{a^2}$$

$$(5) + (9) = \frac{5 \times 5}{1 \times 1} + \frac{9 \times 9}{1 \times 1} = \frac{5 \times 5}{1 \times 1} + \frac{9 \times 9}{1 \times 1} = 25 + 81 = 106 \quad \text{الف}$$

$$(9) - (5) = \frac{9 \times 9 \times 1 \times 1}{1 \times 1 \times 1 \times 1} - \frac{5 \times 5 \times 1 \times 1}{1 \times 1 \times 1 \times 1} = \frac{81}{1} - \frac{25}{1} = 56 \quad \text{ب}$$