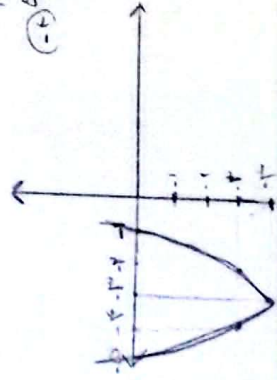
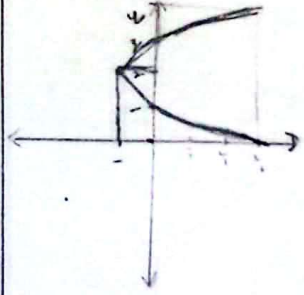


$$f = x^2 + 2x + 5$$



الف) منبصوم داراست و حقیقتی (ب) ...
 حقیقتی (ب) ...
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رسم نمودار



الف) حقیقتی (ب) ...
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ب) دقتاً ...
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$$f(x) = x^2 + 2x + 5$$

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$$x^2 - 11x + 18 = 0 \rightarrow (x - 9)(x - 2) = 0 \Rightarrow \begin{cases} x = 9 \\ x = 2 \end{cases} \quad \text{الف}$$

$$x^2 + 3x - 78 = 0 \rightarrow (x + 13)(x - 6) = 0 \Rightarrow \begin{cases} x = 6 \\ x = -13 \end{cases} \quad \text{ب}$$

$$17x^2 + 7 = 0 \rightarrow 17x^2 = -7 \Rightarrow x^2 = -\frac{7}{17} \Rightarrow x = \pm \sqrt{-\frac{7}{17}} \quad \text{الف}$$

$$17x^2 - 10x + 7 = 0 \rightarrow 17x^2 - 10x + 7 = 0 \Rightarrow x = \frac{10 \pm \sqrt{100 - 476}}{34} \quad \text{ب}$$

$$7x^2 - 5x + 3 = 0 \Rightarrow x = \frac{5 \pm \sqrt{25 - 84}}{14} \quad \text{الف}$$

$$2x^2 + 5x + 3 = 0 \Rightarrow x = \frac{-5 \pm \sqrt{25 - 24}}{4} \Rightarrow x = \frac{-5 \pm 1}{4} \Rightarrow x = -1, -\frac{3}{2} \quad \text{ب}$$

$$2x^2 - 5x + 1 = 0 \Rightarrow x = \frac{5 \pm \sqrt{25 - 8}}{4} \Rightarrow x = \frac{5 \pm \sqrt{17}}{4} \quad \text{ج}$$

$$x^2 + 7x + 9 = 0 \Rightarrow x = \frac{-7 \pm \sqrt{49 - 36}}{2} \Rightarrow x = \frac{-7 \pm \sqrt{13}}{2} \quad \text{د}$$

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

$$14 - 2(6) = 2 \quad \text{ب}$$

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

$$x^2 - 4x + 7 = 1 \Rightarrow x^2 - 4x + 6 = 0 \Rightarrow x = \frac{4 \pm \sqrt{16 - 24}}{2} \Rightarrow x = \frac{4 \pm \sqrt{-8}}{2} \Rightarrow x = 2 \pm i\sqrt{2} \quad \text{ب}$$

$$(x^2 + 7x + 9) + (x^2 - 5x + 1) = 0 \Rightarrow 2x^2 + 2x + 10 = 0 \Rightarrow x^2 + x + 5 = 0 \Rightarrow x = \frac{-1 \pm \sqrt{1 - 20}}{2} \Rightarrow x = \frac{-1 \pm i\sqrt{19}}{2} \quad \text{الف}$$

$$(x^2 + 9) - (x^2 + 1) = 0 \Rightarrow 8 = 0 \quad \text{ب}$$

$$14 - 2x = 2 \Rightarrow 12 = 2x \Rightarrow x = 6 \quad \text{ب}$$