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یازدهمین فصل

عسل کی مر

$$y = -x^2 + bx + 3 \rightarrow \text{مگر } \frac{b}{4} \rightarrow -\frac{b^2}{4} + \frac{b^2}{4} + 3 = 7$$

$$\rightarrow \frac{b^2}{4} + 3 = 7 \rightarrow \frac{b^2}{4} = 4 \rightarrow b^2 = 16 \rightarrow \boxed{b = \pm 4}$$

سوال ۱۵

$$y = \frac{-\Delta}{2a} = 7$$

$$b = \pm 4$$

سوال ۱۶

صورت دیگر را $x^2 + 3x + 3$ بگیریم و در آن برای x صواب کنیم در آن دو طرف از ضربات پس

نیز در آن

$$f(x) = (x^2 + 3x + 3) - 2(x^2 + 3x + 3) = -x^2 - 3x - 3$$

$$\rightarrow -x^2 - 3x - 3 = 0 \rightarrow x^2 + 3x + 3 = 0$$

$$\rightarrow x = \frac{-3 \pm \sqrt{9 - 12}}{2} = \frac{-3 \pm \sqrt{-3}}{2}$$

سوال ۱۷

$$x_1, x_2 \rightarrow x_2 = x_1 + 2 \rightarrow x_1 + 2 + x_1 = \frac{14}{2} \rightarrow 2x_1 + 2 = 7$$

$$\rightarrow 2x_1 = 5 \rightarrow x_1 = \frac{5}{2} \rightarrow x_2 = \frac{9}{2}$$

سوال ۱۸

$$2a - 3 = 4 \rightarrow 2a + 2 - 3 = 4 \rightarrow 2(a + 1) - 3 = 4$$

$$2(a + 1) - 3 = 4 \rightarrow 2(a + 1) = 7 \rightarrow a + 1 = \frac{7}{2} \rightarrow a = \frac{5}{2}$$

سوال ۱۹

$$a, \frac{1}{a} \rightarrow a \times \frac{1}{a} = 1 \rightarrow m^2 - 2 = -m \rightarrow m^2 + m - 2 = 0$$

$$\Delta > 0 \rightarrow 1 + 4 = 5 \rightarrow \sqrt{5} \rightarrow m = \frac{-1 \pm \sqrt{5}}{2}$$

سوال ۲۰

$$aB^2 = 1 \rightarrow \frac{a}{B^2} = 1 \rightarrow B = \frac{1}{\sqrt{a}} \rightarrow a = \frac{1}{B^2}$$

$$\rightarrow m = \frac{1}{B^2} + \frac{1}{B^2} = \frac{2}{B^2}$$

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$$x_1, x_2 \rightarrow 3x_1 = x_2 \rightarrow 3x_1 + x_1 = 4 \rightarrow 4x_1 = 4 \rightarrow x_1 = 1 \text{ و } x_2 = 3 \text{ سران}$$

$$\rightarrow x_1, x_2 = m \rightarrow 1 \times 3 = m \rightarrow \boxed{m = 3}$$

$$2x^2 - 4x + 2 \rightarrow \Delta = 0 \checkmark$$

(1, 3)

$$a^2 + \frac{1}{a^3} \rightarrow (a + \frac{1}{a})(a^2 + \frac{1}{a^2} - 1) \rightarrow a^2 + \frac{1}{a^2} - a^2 + 1a \leftarrow \text{سران}$$

$$\rightarrow \cancel{a + \frac{1}{a}} (\frac{1}{a^2} + a) = \boxed{301}$$

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$$h(t) = -10 + 2t + 0.5t^2$$

سران

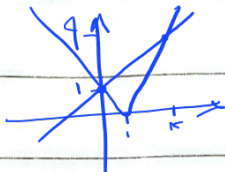
$$t = -\frac{b}{2a} = -\frac{20}{-1} = 20$$

$$y_s = -10(20)^2 + 2(20) = -4000 + 40 = -3960 \text{ متر}$$

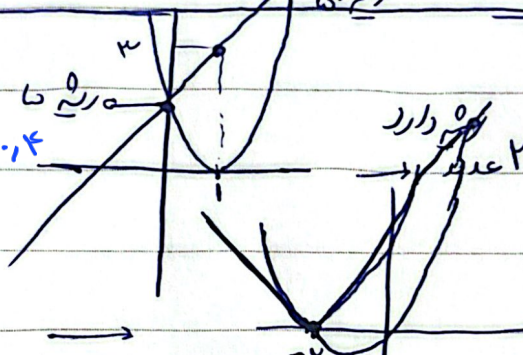
5

وقت رسیدن $\rightarrow -10 + 2t + 0.5t^2 = 0 \rightarrow -10 + (t - 20) \rightarrow t = 0$

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



$$x = -1.4$$

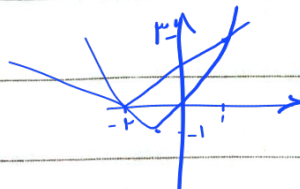


سران

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$$x^2 + 2x = 6x + 1$$

$$\begin{aligned} x^2 + 2x &= 6x + 1 \rightarrow x^2 + x - 2 = (x+2)(x-1) \rightarrow x = -2 \checkmark \\ x^2 + 2x - 6x - 1 &= x^2 - 4x - 1 = (x+1)(x-5) \rightarrow x = 5 \checkmark \end{aligned}$$



$$x = -2.1$$

درجه 1 دار

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