

Subject :

Year. Month. Date. ()

مراجعة (مراجعة)

$$y = -x^2 + bx + 10$$

$$y_s = V = \frac{-\Delta}{2a} \rightarrow \Delta = b^2 - 4ac = b^2 - 4(-1)(10) = b^2 + 40 \Rightarrow \frac{(b^2 + 40)}{-2} = V$$

$$-b^2 + 40 = -20 \rightarrow -b^2 = -60$$

$$b^2 = 60 \rightarrow b = \pm \sqrt{60}$$

$$f(x) = x^2 + 2x + 10 \rightarrow \Delta \rightarrow f = 2x + 10 = -10$$

$$x^2 + 2x + 10$$

$$-10 < 0 \rightarrow$$

$$\frac{2 \pm \sqrt{4 - 40}}{2}$$

$$f(x) = (x - x^2)^2 - 2(x - x^2) - 10 \rightarrow x^2 - 2x + 10 \rightarrow (x - 1)(x + 9)$$

$$x^2 - x^2 = 0$$

$$x - x^2 - 10 = 0 \rightarrow -x^2 - 10 = 0 \rightarrow -x^2 = 10 \rightarrow x^2 = -10 \rightarrow \text{لا يوجد حلا حقيقي}$$

$$x^2 - x^2 + 10 = 0 \rightarrow -x^2 + 10 = 0 \rightarrow x^2 = 10 \rightarrow x = \pm \sqrt{10}$$

$$f(x) = 14x + m$$

$$x, x + 1$$

$$x + x + 1 = 14x + 1 \leq 8 = \frac{-b}{a} = \frac{14}{1} \leq 8 \rightarrow 14x + 1 \leq 8 \rightarrow 14x \leq 7 \rightarrow x \leq \frac{1}{2}$$

$$\frac{0}{2} = 0 \leq 14x + 1 = 1 \rightarrow \frac{m}{2} \leq 1 \rightarrow m \leq 2$$

$$f(x) = 4x + m - 1$$

$$14x - 1 = 2 \rightarrow 14x = 3 \rightarrow x = \frac{3}{14}$$

$$14x - 2 \leq 4 \rightarrow 14x \leq 6 \rightarrow x \leq \frac{3}{7}$$

$$\frac{m-1}{2} \leq 1 \rightarrow m \leq 3$$

$$m \leq 1$$

$$B \leq 0$$

$$-mx^2 + 14x + m - 1 \leq 0$$

$$\frac{1}{2}, x \rightarrow x \times \frac{1}{2} \leq 1 = \frac{c}{a} = \frac{m-1}{-m} \leq 1 \rightarrow m^2 - 1 = -m$$

$$m^2 + m - 1 \rightarrow (m+1)(m-1) \leq 0$$

$$m \leq -1 \text{ or } m \geq 1$$

$$14x^2 + 14x + 1 \rightarrow \Delta \rightarrow 14 - 14 = 0 \rightarrow x$$

$$-x^2 + 14x - 1 \leq 0 \rightarrow 14 - 2 \leq 14 \rightarrow \Delta \rightarrow \checkmark$$

$$m \leq 1$$

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$$x^r - mx + p = 0$$

$$\alpha B^r = \Sigma$$

$$a = \frac{\Sigma}{B^r} \quad \alpha B = \frac{r}{B^r} \times B = \frac{\Sigma}{B} = \frac{C}{a} \times r \rightarrow r B \Sigma \rightarrow B = \frac{\Sigma}{r} \quad \alpha = \frac{q}{\Sigma}$$

$$\frac{q}{\Sigma} + \frac{r}{r} = \frac{rp}{r} = \frac{b}{a} = m \rightarrow m = \frac{\Sigma r}{r}$$

$$\Delta > 0 \rightarrow x^r - \frac{\Sigma r}{r} x + p = 0$$

$$\left(\frac{rp}{r}\right)^r - r \rightarrow \Delta > 0 \quad \checkmark$$

$$x^r - \Sigma x + m = 0$$

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$$\alpha, p \alpha \rightarrow B = p \alpha + \alpha = \Sigma \alpha = \frac{b}{a} \times \Sigma \rightarrow \alpha = 1$$

$$r \alpha^r = p \times r \times 1^r = p = m \rightarrow m = \frac{rp}{r}$$

$$x^r - vx + p = 0 \rightarrow x^r + p = vx \rightarrow x + \frac{p}{x} = v$$

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$$x^r + \frac{p}{x} \Rightarrow \underbrace{\left(x + \frac{p}{x}\right)}_v \left(x^r + \frac{\Sigma}{x^r} - r\right)$$

$$\frac{x^2 + \Sigma}{x^r} \rightarrow \frac{(x^r + r)^r - \Sigma x^r}{x^r} \Rightarrow \frac{(x^r + r)^r}{x^r} - \Sigma = \Sigma a - \Sigma \Sigma \Sigma a$$

$$v \times (r a - r) = (r, 1)$$

$$h(t) = -1 \cdot t^r + 20t$$

$$\max \left| \frac{-b}{2a} = \frac{-20}{-2} = 10 \right| \quad (9, 18)$$

$$-1 \cdot t^r + 20t = 0$$

$$t(-1 \cdot t + 20) = 0$$

$$t = 0 \quad t = 20$$

$$\text{hence } 9, 18$$

$$t = 20$$

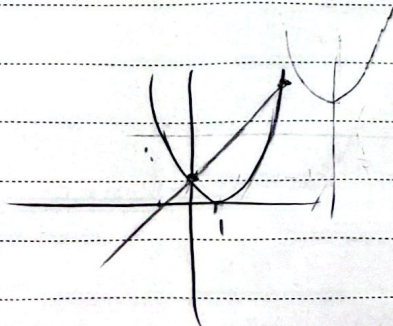
$$a) (n-1)^r = r n + 1$$

$$a^r - r n + 1 = r n + 1$$

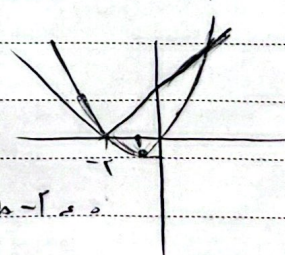
$$a^r - \Sigma n = 0$$

$$a(n - \Sigma) = 0$$

$$n = 0 \text{ or } \Sigma$$



$$b) x^r + r n = |x + r|$$



$$a^r + r n = a - r$$

$$a^r + n - r = 0$$

$$a = -r + 1$$

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