

Subject: /
باسم تعالٰی بقرہ ۱۲

Date: ۲۵ مئی ۱۹۹۵

Sa Su Mo Tu We Th Fr

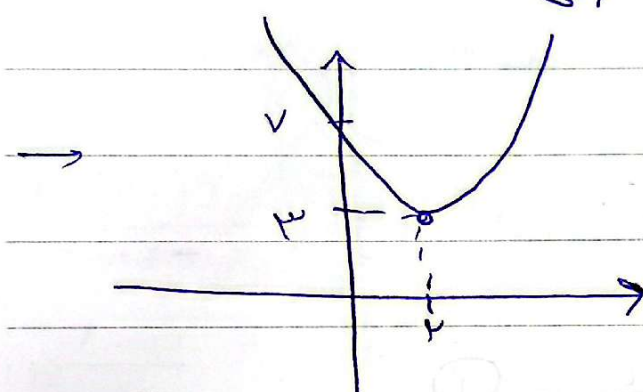
۲۵ مئی ۱۹۹۵

یازدہم (مختار)

الف) $x^2 - 4x + 7 = y$

①

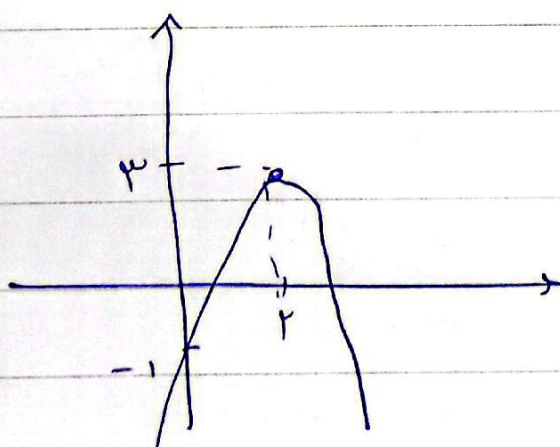
$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-(-4) \pm \sqrt{(-4)^2 - 4(1)(7)}}{2(1)} = \frac{4 \pm \sqrt{16 - 28}}{2} = \frac{4 \pm \sqrt{-12}}{2}$



②

ب) $y = -x^2 + 4x - 1 \rightarrow \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-4 \pm \sqrt{16 - 4(-1)(-1)}}{2(-1)} = \frac{-4 \pm \sqrt{16 - 4}}{-2} = \frac{-4 \pm \sqrt{12}}{-2}$

$y = -(x-2)^2 + 3 - 1 = -(x-2)^2 + 2$



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(۲) معادله ی $r_m^2 + (m+1)r_m + \frac{1}{p}m + \frac{1}{p} = 0$

(الف) $\Delta \leq 0$ شرط مقایسه $\Delta = b^2 - 4ac$

$\Rightarrow (m+1)^2 - 4 \left(\frac{1}{p} + m + 1 \right) \leq 0$

$m^2 + 1 + 2m - 4m - 4 \leq 0 \Rightarrow m^2 - 2m - 3 \leq 0$

$(m-3)(m+1) \leq 0 \Rightarrow \frac{-3}{+} \frac{\delta}{-} \frac{\delta}{+}$

$\Rightarrow m \in (-\infty, -1) \cup (3, +\infty)$

(ب) $\Delta < 0$ شرط مقایسه $m^2 - 2m - 3 < 0 \Rightarrow m \in (-1, 3)$

(ج) $\Delta > 0$ شرط مقایسه $m - 2m - 3 < 0$

$(m-3)(m+1) < 0 \Rightarrow \frac{-3}{+} \frac{\delta}{-} \frac{\delta}{+} \Rightarrow m \in (-1, 3)$

(د) $m \in (-\infty, -1) \cup (3, +\infty) \in \Delta > 0$ شرط مقایسه

$$y = (m-2)x^2 - 2(m+1)x + 1, \quad (3)$$

الف) طلب ما $\ominus \leftarrow$ ضيق آن ما $\oplus$ و جيبان صفي است.

$$\Rightarrow \frac{-b}{a} < 0 \quad \text{و} \quad \frac{c}{a} > 0 \Rightarrow \frac{1}{m-2} > 0 \Rightarrow m > 2 \quad (4)$$

$$(4) \quad \frac{2m+2}{m-2} < 0 \Rightarrow \frac{-1}{+1} \frac{2}{-} \Rightarrow -1 < m < 2 \quad (5)$$

$$\frac{(4) \cap (5)}{\Rightarrow \emptyset \Rightarrow \text{مستحيل}}$$

(5)

(6)

منى بدتره $\frac{-b}{a} < 0 \quad \text{و} \quad \frac{c}{a} < 0 \Rightarrow$ تنفلا لا

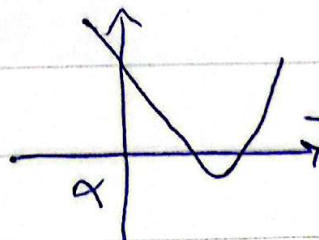
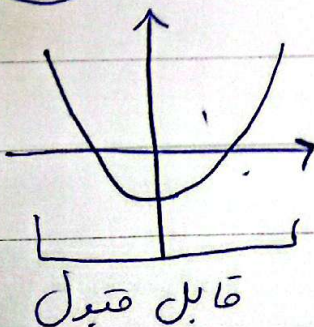
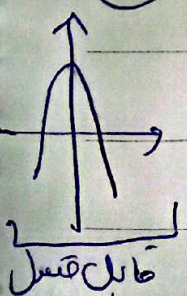
$$\Rightarrow \frac{1}{m-2} < 0 \Rightarrow m < 2 \quad (1) \quad \frac{2m+2}{m-2} < 0$$

$$\frac{-1}{+1} \frac{2}{-} \Rightarrow -1 < m < 2 \quad (2) \quad \frac{(1) \cap (2)}{\Rightarrow -1 < m < 2}$$

$m \in (-1, 2)$

(الف) (14)

عقود



(2)

من ربه

Subject:

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ارامہ ۴

نہی رائے
 $\Delta > 0$ و $\Delta < 0$ و $\Delta = 0$ کی نسبت یہی منفی ہے

$$\rightarrow \frac{1_0}{m-2} < 0 \Rightarrow m < 2 \quad (1)$$

$$\Delta(2(m+1))^2 - 4(1_0)(m-2) > 0$$

$$4m^2 + 8m + 4 - 4_0m + 8_0 > 0$$

$$4m^2 - 32m + 12 > 0 \xrightarrow{\div 4} m^2 - 8m + 3 > 0$$

$$4_0 - 8 \times 3 = 12$$

$m < 2$ ← ہڈی منفی ہے

$$\frac{-b}{2a} = -2 \Rightarrow \frac{4(m+1)}{4(m-2)} = -2$$

(1)

$$\Rightarrow m+1 = 2 - 2m \Rightarrow 3m = 1 \Rightarrow m = \frac{1}{3}$$

$$\frac{r_n r}{\mu} - (r \sin) n + \frac{\mu}{r} = 0 \quad (4)$$

$$\Delta \geq 0 \Rightarrow r \sin^2 \alpha - r \times \frac{r}{\mu} \times \frac{\mu}{r} \geq 0 \Rightarrow r \sin^2 \alpha - r \geq 0$$

$$\Rightarrow \sin^2 \alpha \geq 1 \quad \text{---} \quad 0 \leq \sin^2 \alpha \leq 1 \quad \rightarrow \sin^2 \alpha \leq 1 \Rightarrow \sin \alpha = \pm 1$$

$$\sin \alpha \leq 1 \rightarrow \frac{r}{\mu} n^2 - n + \frac{\mu}{r} = 0$$

$$\Delta \leq \varepsilon - \varepsilon \times \frac{r}{\mu} \times \frac{\mu}{r} = 0 \quad n \leq \frac{r + 0}{\frac{\varepsilon}{\mu}} = \left(\frac{\mu}{r} \right) \quad (5)$$

$$(r) \quad \sin \alpha \leq -1 \Rightarrow \frac{r}{\mu} n^2 + n + \frac{\mu}{r} = 0$$

$$\Delta \leq \varepsilon - \varepsilon \times \frac{\mu}{r} \times \frac{r}{\mu} = 0 \Rightarrow n \leq \frac{-r + 0}{\frac{\varepsilon}{\mu}} = -\frac{\mu}{r} \quad \text{---} \quad \frac{\varepsilon}{\mu} \leq \frac{\mu}{r} \quad \text{---} \quad \frac{\varepsilon}{\mu} \leq \frac{\mu}{r}$$

$$y = \frac{(r_n r - r_{n-1})(r_n r - r_{n-1})}{1 - n^2} \quad a + b = b$$

في هذا الحد

$$\rightarrow \frac{(n-1)(n+\frac{1}{r})(n+1)(n-\frac{1}{r})}{(n+1)(1-\frac{1}{r})} = (n+\frac{1}{r})(\frac{1}{r}-n)$$

$$= -n^2 + \frac{1}{r} n + \frac{1}{r} \rightarrow y = \frac{-\Delta}{\varepsilon a} = \left(\frac{r a}{\mu \varepsilon} \right)$$

$$m n^r (m+r) n - r_s \circ$$

(V)

$$W S = \partial \rho + V \Rightarrow \mu_x \frac{m+r}{m} s = \frac{r}{m} x \partial + V$$

$$\frac{W m + 4}{m} = \frac{V m - 1}{m}$$

(5)

$$\Rightarrow W m + 4 = V m - 1 \Rightarrow \boxed{m \leq 8}$$

$$\alpha^r + \beta^r = s^r - r \rho = \frac{a}{\varepsilon} + 1 = \left(\frac{1W}{\varepsilon} \right) \rightarrow \text{C.B.}$$

$$n^r \delta n + r_s \circ \rightarrow s = \delta \rightarrow \rho \leq r$$

(1)

$$\frac{r\alpha + \beta\omega}{\partial \beta^r} \xrightarrow{\text{C.B.}} \frac{r\alpha}{\partial \beta^r} + \frac{\beta\omega}{\omega}$$

(5)

$$\beta \leq \frac{r}{a} \Rightarrow \partial \beta^r \leq \frac{r_0}{a^r} \Rightarrow \frac{\varepsilon r}{\frac{r_0}{a^r}} + \frac{\beta\omega}{\omega} = \frac{r\alpha + \beta\omega}{\omega}$$

$$\alpha^r + \beta^r = s^r - W S \rho = 1 r \delta - \mu_x r_x \delta = \underline{a\omega}$$

$$\Rightarrow \frac{a\delta}{\delta} \leq 19$$

$$y_1 = am^v + bn + c \xrightarrow{(0, f)} c, f$$

④

$$y = pm + l_0 \Rightarrow \begin{matrix} m \rightarrow y = l\varepsilon \\ n \rightarrow y = \varepsilon \end{matrix} \Rightarrow l\varepsilon = pa + pb + \varepsilon$$

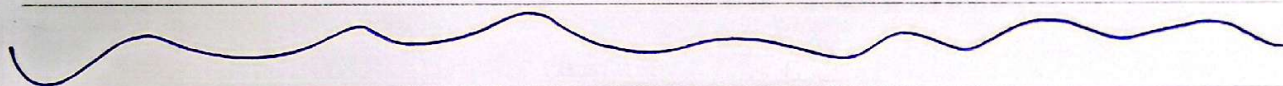
$\varepsilon a + pb \leq l_0$
 $pa + b \leq \varepsilon$

$$\Rightarrow \varepsilon a - pb + \varepsilon \Rightarrow a = pb \Rightarrow b \leq \varepsilon a$$

$$pa + pb \leq \varepsilon \rightarrow a \leq l_0, b \leq \varepsilon$$

⑤

$$C/ba = \frac{-b}{pa} \leq \frac{-\mu}{\varepsilon}$$



$$y = pm^v + (m+1)n + m + 4$$

(1, 2)

①

$$pm^v + (m+1)n + m + 4 \leq n \Rightarrow pm^v + mn + m + 4 \leq n$$

$$m^v - \varepsilon x + (m+4) \leq 0$$

 $\Delta \leq 0$

$$m^v - \Delta m - \varepsilon \Delta \leq 0$$

$$(m - 1\varepsilon)(m + \varepsilon) \leq 0 \Rightarrow m \leq 1\varepsilon - \varepsilon$$