

۱۸، ۷۵

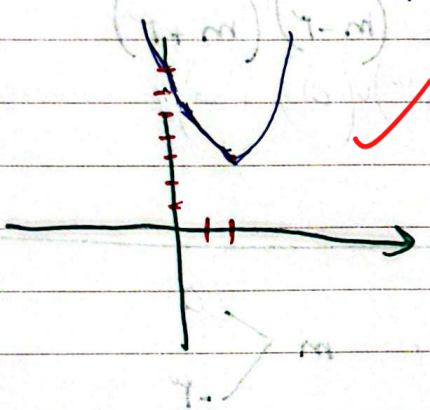
Subject

Date

عرفان حقیقی بازدهم

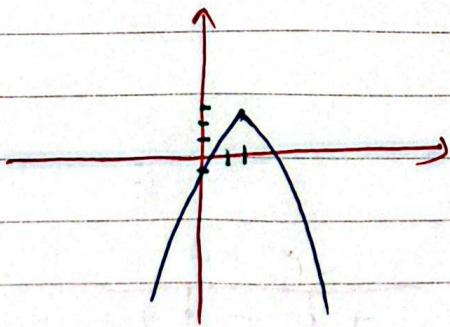
$$y = n^2 - 2n + 1 \Rightarrow \min \left| \frac{-b}{2a} = \frac{2}{2} = 1 \right|$$

(۱)



$$y = -n^2 + 2n - 1 \Rightarrow \max \left| \frac{-b}{2a} = \frac{-2}{-2} = 1 \right|$$

(۲)



$$1) \Delta > 0 \Rightarrow (m+1)^r - r \left(\frac{1}{r} m + r \right) (r) \quad (r) \quad (r)$$

$$m^r + r m + 1 - r m - 1 \leq 0 \Rightarrow \underbrace{m^r - r m - 1}_{(m-r)(m+r)} \leq 0$$

$$\begin{array}{c} -r \quad a \\ + \quad | \quad - \quad | \quad + \end{array} \Rightarrow m \in (-\infty, r) \cup (a, +\infty) \quad \checkmark$$

$$\Rightarrow \Delta = 0 \Rightarrow m^r - r m - 1 = 0 \quad m < \begin{array}{c} a \\ -r \end{array} \quad \checkmark$$

$$(m-r)(m+r) = 0$$

$$2) \Delta < 0 \Rightarrow m^r - r m - 1 < 0 \quad \begin{array}{c} -r \quad a \\ + \quad | \quad - \quad | \quad + \end{array}$$

$$(m-r)(m+r) < 0$$

$$m \in (-r, a) \quad \checkmark$$

$$3) \Delta \geq 0 \Rightarrow m^r - r m - 1 \geq 0 \quad \begin{array}{c} -r \quad a \\ + \quad | \quad - \quad | \quad + \end{array}$$

$$(m-r)(m+r) \geq 0$$

$$m \in (-\infty, r] \cup [a, +\infty) \quad \checkmark$$

الف) $\frac{c}{a} > 0 \Rightarrow \frac{1}{m-2} > 0 \Rightarrow m > 2$ I (2) س

د) $\Rightarrow (2m+2) - r(1)(m-2) \Rightarrow r m^2 + 4m + 2 - r \cdot m + 2$

$r m^2 - r m + 4 > 0 \Rightarrow m^2 - 1m + 2 > 0 \Rightarrow \Delta < 0$ همواره برقرار

$\Delta < 0 \quad \frac{-b}{a} < 0 \Rightarrow \frac{2m+2}{m-2} < 0$

-1	2
+	-

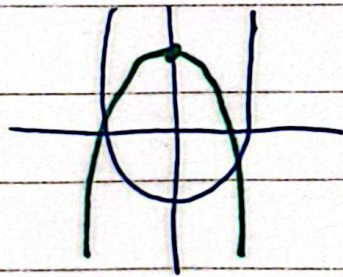
$-1 < m < 2$ II $I \cap II = \emptyset$ ✓ باز از هیچ مقدار m

$$\div) \Delta). \text{ همواره برقرار } p < \frac{1}{m-1} < m < r \quad I \text{ (✓)}$$

$$\frac{-b}{a} < \Rightarrow \frac{r_{m+1}}{m-1} < \frac{-1}{+1-1+} r -1 < m < r \quad II$$

$$I \cap II \quad -1 < m < r \quad \checkmark$$

الف)



$$\Rightarrow P < 0$$

$\Delta > 0$ $\Rightarrow$ قسم واره
بفرار

(2) $\sqrt{2}$

$$P < 0 \Rightarrow \frac{c}{a} < \frac{10}{m-2} < 0 \Rightarrow m < 2 \checkmark$$

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

$$-4m = -4 \quad m=1 \checkmark$$

$$\frac{r_n^2}{r} - (r \sin \alpha) n + \frac{r}{r} = \dots \Rightarrow r n^2 - (12 \sin \alpha) + 9 \quad (1) \quad \text{و}$$

$$\Delta \geq 0 \Rightarrow 144 \sin^2 \alpha - 144 \geq 0 \Rightarrow \sin \alpha \leq -1 \quad \text{و} \quad \sin \alpha \geq 1 \quad \checkmark$$

چون n در بین 1 و 1 است
پس مساوی
مفروضه

$$\frac{1}{a} \Rightarrow \sin \alpha = -1 \rightarrow \alpha = -\frac{\pi}{2} \quad \text{مقدار بیشه مقعر نیست!}$$

$$\sin \alpha = 1 \rightarrow \frac{r_n^2}{r} - r n + \frac{r}{r} = 0 \rightarrow (r n - r)^2 = 0 \rightarrow n = \frac{r}{r}$$

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

$$- (1+n)(1-n)$$

$$- (r n - a)(r n + 1) \Rightarrow - r n^2 + 1 r n + a = 0$$

$$\frac{-\Delta}{r n} = \frac{-189}{-18} = 10.5 \quad \checkmark$$



$$W_s - V = \omega p$$

(r) ✓

$$W \left(\frac{m+r}{m} \right) - V = \omega \left(-\frac{r}{m} \right) \Rightarrow \frac{W_m + r}{m} - V = -\frac{1}{m}$$

$$\frac{W_m + r}{m} + \frac{1}{m} = V \Rightarrow \frac{W_m + 1}{m} = V$$

$$V_m = W_m + 1 \Rightarrow m = r \checkmark$$

$$r_m + 1/n - r = \dots \Rightarrow s - 1/p \Rightarrow \frac{q}{r} + 1 \Rightarrow \frac{1}{r} \checkmark$$

$$s = \frac{-b}{a} = \frac{-c}{r} \Rightarrow -\frac{r}{r}$$

$$p = \frac{c}{a} = \frac{-r}{r} = -\frac{1}{r}$$

$$\frac{r a + B^{\omega}}{\omega B^r} \xrightarrow{\times B} \frac{r \alpha B + B^{\omega}}{\omega B^r} \rightarrow \frac{\Lambda + B^{\omega}}{\omega B^r} \Rightarrow \frac{1}{\omega} \left(\frac{\Lambda}{B^r} + B^{\omega} \right) \checkmark$$

$$\alpha B = r \Rightarrow \alpha = \frac{r}{B} \Rightarrow \alpha^r = \frac{\Lambda}{B^r}$$

$$\frac{1}{\omega} (\alpha^r + B^r) = \frac{1}{\omega} [(\alpha + B)^r - r \alpha B (\alpha + B)] = \frac{1}{\omega} \times 9\omega = 9 \checkmark$$

$$an^r + bn + c = r_{m+1}.$$

(2) (9)

$$an^r + (b-r)n - c = 0 \quad \Rightarrow \quad n=r \quad \Rightarrow \quad ra + (b-r)r - c = 0.$$

$$\Rightarrow ra + rb - r - c = 0 \Rightarrow ra + rb = 1.$$

$$n=-r \quad \Rightarrow \quad 9a - r(b-r) - c = 0 \Rightarrow 9a - r^2b + c - c = 0.$$

$$\begin{cases} 9a - r^2b = 0 \\ ra + rb = 1 \end{cases} \Rightarrow \begin{cases} 18a - 2b = 0 \\ 12a + 2b = 1 \end{cases} \Rightarrow \begin{cases} a = \frac{1}{12} \\ b = 1 \end{cases}$$

$$y = \frac{1}{12}n^r + n + c$$

$$\text{مقدار} = \frac{-b}{2a} = n = -\frac{r}{r} \quad \checkmark$$

$$r^n + (n+1)n + m + c = n$$

(1, \sqrt{5})/1.

$$r^n + mn + m + c = 0 \Rightarrow \Delta = 0 \Rightarrow m^r - r(m+c)(r)$$

$$m^r - 12m - r^2 = 0 \Rightarrow (m-12)(m+r) \quad m < \frac{12}{-r} \quad \checkmark \quad \text{نمی شود} \quad \times$$