

19, 5

تالیف ۱۲

یازدهم ریاضی

روزانه سرالمانی

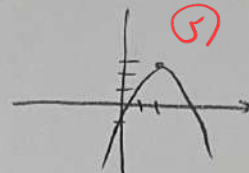
الف) $y = m^2 - 2m + 1$

ext $\left| \begin{array}{l} -\frac{b}{2a} = -\frac{-2}{2} = 1 \\ \frac{4}{4} - 1 = 0 \end{array} \right.$



ب) $y = -m^2 + 2m - 1$

ext $\left| \begin{array}{l} -\frac{b}{2a} = -\frac{2}{-2} = 1 \\ -1 + 2 - 1 = 0 \end{array} \right.$



$m^2 + (m+1) + \frac{1}{m} + 2 = 0$

$(m+1)^2 - 2(1)(\frac{1}{m} + 2) > 0 \quad m^2 + 1 + 2m - 2m - 4 > 0 \quad m^2 - 2m - 1 > 0$

$(m-0)(m+2) > 0$

الف) درجه دوم متغیر $\Delta > 0$
 $\frac{-3 \pm \sqrt{9-4}}{2} = \frac{-3 \pm \sqrt{5}}{2}$
 $(-\infty, \frac{-3-\sqrt{5}}{2}) \cup (\frac{-3+\sqrt{5}}{2}, +\infty)$

$(m+1)^2 - 2(1)(\frac{1}{m} + 2) = 0$

$m^2 - 2m - 1 = 0 \quad (m-1)(m+1) = 0$

ب) درجه دوم متغیر $\Delta = 0$

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

$m^2 - 2m - 1 < 0 \quad (m-0)(m+2) < 0$

ج) فاصله از صفر $\Delta < 0$

$\frac{-3 \pm \sqrt{5}}{2}$
 $(-1, 1)$

$(m+1)^2 - 2(1)(\frac{1}{m} + 2) > 0$

$m^2 - 2m - 1 > 0 \quad (m-0)(m+2) > 0$

$\frac{-3 \pm \sqrt{5}}{2}$
 $(-\infty, \frac{-3-\sqrt{5}}{2}) \cup (\frac{-3+\sqrt{5}}{2}, +\infty)$

د) دایره از صفر $\Delta > 0$

$(m-2)n^2 - 2(m+1)n + 1 = 0$

$S = \frac{1 \pm \sqrt{1-4(m-2)(m+1)}}{2(m-2)}$
 $\frac{-1 \pm \sqrt{1-4(m-2)(m+1)}}{2(m-2)}$
 $(-1, 2)$

$P = \frac{1}{m-2} > 0 \quad \frac{2}{-1 \pm 1}$
 $(2, +\infty)$

الف) $S \cap P = \emptyset$
 $(2, +\infty) \cap (-1, 2) = \emptyset$

$S = \frac{1 \pm \sqrt{1-4(m-2)(m+1)}}{2(m-2)}$
 $(-1, 2)$

$P = \frac{1}{m-2} < 0 \quad \frac{2}{-1 \pm 1}$
 $(-\infty, 2)$

ب) $S \cap P = (-1, 2)$
 $(-1, 2) \cap (-\infty, 2) = (-1, 2)$

$y = (m-2)n^2 - 2(m+1)n + 1$



$\frac{c}{a} < 0 \quad \frac{1}{m-2} < 0 \quad \frac{2}{-1 \pm 1}$
 $m < 2$

الف) $\Delta > 0$

$-\frac{b}{2a} = -1 \rightarrow \frac{b}{2a} = 1$

$\frac{-2(m+1)}{2(m-2)} = 1$

$2m - 2 = -2m - 2$

$2m = 0 \quad m = 0$

ب) محور تقاطع $m = -2$

$$\frac{r_m^r}{r} - (r \sin \alpha) m + \frac{r}{r} = 0$$

$$\Delta \geq 0 \quad (r \sin \alpha)^2 - 4 \left(\frac{r}{r} \right) \left(\frac{r}{r} \right) \geq 0$$

$$r \sin^2 \alpha \geq 4 \quad \sin^2 \alpha \geq 1 \quad \sin \alpha = 1 \quad \sin \alpha = \pm 1$$

$$\sin \alpha = 1 \rightarrow \frac{r}{r} m^r - r m + \frac{r}{r}$$

$$\sin \alpha = -1 \rightarrow \frac{r}{r} m^r + r m + \frac{r}{r}$$

$$\frac{r \pm \sqrt{c^2 - 4 \frac{r}{r} \frac{r}{r}}}{\frac{c}{r}} = \frac{4 - r}{\frac{r}{r}}$$

$$\frac{-r \pm \sqrt{E - 4 \frac{r}{r} \frac{r}{r}}}{\frac{c}{r}} = -\frac{r}{r} \quad \text{GÖZ}$$

$$y = \frac{(r_m^r - r_m - 1)(r_m^r - r_m - d)}{1 - m^r}$$

$$\frac{(m-1)(m+1/r)(m+1)(m-d/r)}{(1-m)(1+m)}$$

$$y = -\frac{1}{\varepsilon a} = \frac{\left(\frac{1r}{r}\right)^r - \varepsilon(-1)\left(\frac{\omega}{r}\right)}{-r} = \frac{r_1 9}{12 \varepsilon}$$

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

$$(r m + 4)m = m(-1 + v m)$$

$$r m^r + 4m = -1 \cdot m + v m^r$$

$$0 = r m^r - 14m \quad r m(m - \varepsilon) = 0 \rightarrow \alpha^r + \beta^r = S^r - r p = \left(\frac{r}{r}\right)^r + r \left(\frac{1}{r}\right) = \frac{4}{\varepsilon} + 1 = \frac{1r}{\varepsilon}$$

$$S = \alpha + \beta = \omega = \alpha = \omega - \beta \quad \frac{r \alpha + \beta^2}{\alpha \beta^r} \rightarrow \frac{r}{\varepsilon} m^r - 8m + r = 0 \quad \text{GÖZ}$$

$$\beta^r - \alpha \beta + r = 0 \quad \beta^r = \alpha \beta - r \quad \times \alpha \rightarrow \alpha \beta^r = r \alpha \beta - 1$$

$$\beta^r = (\alpha \beta - r)^r = \beta^2 = r \alpha \beta^r + 2 - r \cdot \beta = 14 \alpha \beta - 20 + 2 - r \cdot \beta \Rightarrow \beta^2 = 14 \alpha \beta - 18$$

$$\xrightarrow{\times \beta} \beta^3 = 14 \alpha \beta^2 - 18 \beta \rightarrow 14 \alpha \beta^2 - 18 \beta = 24 \alpha \beta - 21 \cdot \beta = 24 \alpha \beta - 21 \cdot \beta = \beta^3$$

$$\frac{r(\alpha - \beta) + r \alpha \beta - 21 \cdot \beta}{\alpha(\alpha \beta - r)} = \frac{r \cdot -r \beta + 24 \alpha \beta - 21 \cdot \beta}{r \alpha \beta - 18} = \frac{24 \alpha \beta - 19 \cdot \beta}{r \alpha \beta - 18} = \frac{14(\alpha \beta - 1 \cdot \beta)}{r \alpha \beta - 18} = A$$

$$y_1 = a m^r + b m + \varepsilon \rightarrow r$$

$$y_r = r m + 10$$

$$r \left(\frac{r}{r} \right) + 10 = r a + r b + \varepsilon \rightarrow r a + b = d$$

$$-\frac{4}{\varepsilon} + \frac{10}{\varepsilon} = 4a - r b + \varepsilon$$

$$r a + b = d$$

$$r a - b = 0$$

$$d a = d$$

$$a = 1$$

$$b = r$$

$$m_s = C_{\text{max}} = \frac{b}{r a}$$

$$= \frac{-r}{r}$$

$$y = 12m^2 + (m+1)m + m + 4$$

$$y = 12m^2 + m^2 + m + m + 4 \rightarrow 13m^2 + 2m + 4 = 0 \quad \Delta = 0$$

$$m^2 - 6(12)(m+4) = 0 \quad m^2 = 12m + 48$$

$$m = -2 \rightarrow \Delta = 9 - 6(12)(12) = -6 \quad \checkmark$$

$$m = 12 \rightarrow \Delta = 144 - 6(12)(12) = -6 \quad \times$$

$$m^2 - 12m - 48 = 0$$

$$(m-12)(m+4) = 0$$

$$\boxed{12} \rightarrow -2$$

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