

Subject :

Year. Month. Date. ()

درجہ اولیٰ

$$-\frac{b}{r_0} \leq r \rightarrow \frac{-1}{r_0 - r} = r \rightarrow \sum a - \sum s = 1 \quad (1)$$

$$r_0 = r \rightarrow a = \frac{r}{\sum}$$

$$-\frac{1}{\sum} r^2 + r + r_0 s \rightarrow r^2 - \sum r - 1 \rightarrow (r-1)(r+1) s \rightarrow \boxed{r = 1} \checkmark$$

$$\boxed{r = 1} \checkmark$$

$$f(x) = mx^2 - \alpha x + m$$

$$\frac{x_1 \quad x_2}{-1 \quad 1} \quad (1) \quad \boxed{mx^2} \rightarrow \text{discriminant}$$

$$b^2 - 4ac \geq 0 \rightarrow r_0^2 - 4 \sum \geq 0 \rightarrow \sum r^2 \leq r_0^2 \rightarrow m \leq \frac{r_0^2}{\sum} \rightarrow m \rightarrow -\frac{\alpha}{r} \leq m \leq \frac{\alpha}{r} \quad (2)$$

$$(1) \cap (2) \rightarrow \boxed{-\frac{\alpha}{r} \leq m \leq \frac{r_0^2}{\sum}}$$

$$x^2 - 5x + p \Rightarrow x^2 - rx + \frac{2}{\alpha} \rightarrow \boxed{4x^2 - 11x + \sum s}$$

$$S = \frac{r + \sqrt{a}}{r} + \frac{r - \sqrt{a}}{r} = \frac{4}{r} = r$$

$$p = \frac{r + \sqrt{a}}{r} \times \frac{r - \sqrt{a}}{r} = \frac{4 - a}{r} = \frac{2}{r}$$

$$r_0^2 - 11x + m + r_0 s \quad r_0^2 + \beta^2 = 12 \quad \alpha < \beta \quad m \geq 0 \rightarrow r - 1 + m + r_0 s$$

$$S = \frac{1}{r} \rightarrow \alpha + \beta = 2 \rightarrow \beta = 2 - \alpha$$

$$r_0^2 + (r - \alpha)^2 = 12 \rightarrow r_0^2 + r^2 + 14 + \alpha^2 - 11\alpha = 12 \rightarrow r_0^2 - 11\alpha + \sum s$$

$$\hookrightarrow \alpha^2 - r_0\alpha + 1r_0 \rightarrow \boxed{\alpha \leq 1}$$

$$S(r, 4)$$

$$y = a(n-r)^r + 9$$

$$ra + 9 \leq a \rightarrow a \leq -1 \quad -(n-r)^r + 9 \geq 0$$

$$(n-r)^r - 9 \leq 0 \rightarrow a^2 - \sum r + \sum - 9 \leq 0$$

$$a^2 - \sum r - 9 \leq 0 \rightarrow (a-0)(a+1) \leq 0 \Rightarrow$$

$$\frac{-1 \quad a}{+ \phi - \phi +} \rightarrow (-1, a)$$

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$$\alpha x^r - rx + q\beta = 0$$

(4)

$$\frac{1}{\alpha} + \frac{1}{\beta} = 0$$

$$p \Rightarrow \alpha\beta = \frac{q\beta}{\alpha} \rightarrow \alpha^r\beta = q\beta \rightarrow \alpha = \pm r$$

$$s = \alpha + \beta = \frac{v}{\alpha}$$

$$\alpha = r \rightarrow \frac{v}{r} = r + \beta \Rightarrow \beta = \frac{v}{r} - r$$

$$\alpha = -r \rightarrow -\frac{v}{r} = r + \beta \Rightarrow \beta = \frac{v}{r} + r$$

$$\alpha = -r \rightarrow \beta = \frac{v}{r} + r \rightarrow -\frac{1}{r} + \frac{r}{r} = \frac{v}{r}$$

$$\alpha^r + m\alpha - rm = 0$$

$$\beta^r + m\beta - rm = 0 \rightarrow \beta^r - rm = -m\beta$$

(V)

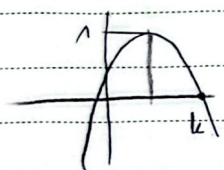
$$\alpha^r - m\beta = 1 \rightarrow \alpha^r + \beta^r - rm + 1 \rightarrow m^r + \varepsilon m - rm - 1 = m^r + rm - 1$$

$$m = -\varepsilon \rightarrow \alpha^r - \varepsilon m + 1 \rightarrow \Delta < 0 \rightarrow \text{no real roots}$$

$$m = r \rightarrow \alpha^r + rm - \varepsilon \rightarrow s = -\frac{b}{a} = (-r)$$

$$f(x) = mx^r + rx + \frac{m}{r} + v \rightarrow m < 0 \rightarrow \text{max}$$

(A)



$$\frac{l}{f(k)} = 1 \rightarrow \Delta = r^2\alpha \rightarrow -(4 - f(m))\left(\frac{m}{r} + v\right) = r^2m$$

$$-4 + rm^r + r^2m = r^2 \rightarrow rm^r - \varepsilon m - 14 = 0$$

$$m^r - rm - 14 = 0 \rightarrow (m - \varepsilon)(m + r) \rightarrow m = \varepsilon$$

$$-rm^r + rm + 4 = 0 \rightarrow \alpha^r - rm - r = 0 \rightarrow (a - r)(n + 1) = 0 \rightarrow n = -1$$



$$4sa(n-r)^r + 4 \rightarrow$$

$$ra + 4sf \rightarrow ra - r \rightarrow a = -\frac{1}{r}$$

$$-\frac{1}{r}(x^r - \varepsilon x + \varepsilon) + 4 \rightarrow -\frac{1}{r}x^r + rm + \varepsilon \rightarrow -x^r + \varepsilon x + 1$$

$$\frac{1}{\alpha} + \frac{1}{\beta} = \frac{\alpha + \beta}{\alpha\beta} = \frac{\varepsilon}{-1} = -\frac{\varepsilon}{1}$$

(7)

$$n - (\varepsilon a + \varepsilon)n + (ra^r + ca + r) = 0$$

$$a = 1 \rightarrow a^r - 1a + 1r = 0$$

(10)

$$fa + \varepsilon = r + \beta$$

$$(n-r)(n-r) = 0 \rightarrow a = r$$

$$ra^r + 4a + r = r\beta$$

$$ra^r + 4a + r = 1a + r$$

$$ra^r - ra - 1 = 0 \rightarrow a = 1, -\frac{1}{r}$$

$$a = -\frac{1}{r} \rightarrow a^r = \frac{1}{r^r}a + \frac{\varepsilon}{r}$$

$$ra^r - 1a + \varepsilon = 0 \rightarrow a = r, \frac{r}{\varepsilon}$$

$$a = 4, \frac{r}{\varepsilon}$$