

مع (20) A

المعادلات

بالنسبة لـ r^2 كـ r^2 و r

$$y = a(n+1)^r + q \quad (r \neq 1) \rightarrow 1 = a(1+1)^r + q \rightarrow 1 = 14a + q \rightarrow a = \frac{-1}{r}$$

$$y = \frac{1}{r} (n+1)^r + q \rightarrow y = \frac{1}{r} n^r - a + \frac{14}{r}$$

$$\Delta y_0 = y_1 - y_0 \rightarrow \frac{-b}{a} y_0 \rightarrow \frac{-m}{r} \rightarrow 0 \quad Py_0 \rightarrow \frac{c}{a} y_0 \rightarrow \frac{c}{a} = \frac{m+q}{r} \rightarrow -q$$

$$\hookrightarrow b^r \text{ for } y_0 \rightarrow m^r - f(r)(m+q) = m^r \quad \Delta m = f \Delta y_0 \quad \frac{(m-r)(m+f)}{r} \rightarrow \frac{-f}{r} \quad \begin{matrix} + & - & + \end{matrix}$$

$$\left. \begin{matrix} m < 0 \\ m > -q \\ m < -f \text{ or } m > r \end{matrix} \right\} \rightarrow -q < m < f \rightarrow (-q, f)$$

$$\frac{-b}{a} = \frac{q}{c} \quad \frac{-r_{m+1}}{r} = \frac{r}{r-m} \quad (-r_{m+1})(r-m) = q \rightarrow -fm + rm^r + r - m = rm^r - \omega m - V = 0$$

$$\frac{-b \pm \sqrt{\Delta}}{2a} = \frac{a \pm \sqrt{r\omega + \omega q}}{f} = \frac{a \pm q}{f} \rightarrow m_1 = \frac{V}{f} \quad m_2 = -1$$

$$m_2 = -1 \rightarrow \Delta = (r(-1) - 1)^r - f(r)(r-1(-1)) = q - r^2 q = r^2 V \times$$

$$m_1 = \frac{V}{f} \rightarrow \Delta = (r(\frac{V}{f}) - 1)^r - f(r)(r - \frac{V}{f}) = r^2 q + 14 = \omega f \checkmark$$

$$a^r - a - f = 0 \Rightarrow S = 1, P = -f$$

$$S' = a_1^r + a_2^r + \frac{1}{a_1} + \frac{1}{a_2} = (S^r - rSP) + \frac{a_1 + a_2}{\frac{a_1 a_2}{P}}$$

$$\Rightarrow S' = (1 - r \times 1 \times -f) + \frac{1}{1} = 1^r - 1 + \frac{\omega 1}{f}$$

$$P' = (a_1^r + \frac{1}{a_2}) (a_2^r + \frac{1}{a_1}) = a_1^r a_2^r + \frac{1}{a_1 a_2} + a_1^r + a_2^r = -qf - \frac{1}{f} + q = -\frac{r r 1}{f}$$

$$\text{variables} \rightarrow a^r - S a + P = 0 \quad a^r - \frac{\omega 1}{f} a - \frac{r r 1}{f} = 0 \rightarrow \boxed{f a^r - \omega 1 a - r r 1 = 0}$$

LINE NOTE

$$\sqrt{2}^r = t \quad (t^r + \frac{1}{t^r} + 1)(t^r - 1) = rt \rightarrow (\frac{t^{2r} + t^r + 1}{t^r})(t^r - 1) = rt$$

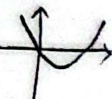
$$\frac{(t^r)^r - 1}{t^r} = rt \rightarrow \frac{t^{r^2} - 1}{t^r} = rt \rightarrow t^{r^2} - 1 = rt^r \quad t^r = 2 \rightarrow 2^r - 2 - 1 = 0$$

$$z = \frac{r + \sqrt{1}}{r} = \boxed{1 + \sqrt{r} = t^r} \rightarrow t = \sqrt{r} \Rightarrow t^r = r \Rightarrow \boxed{r = 1 + \sqrt{r}}$$

$$\Rightarrow r_1 + r_2 = 1 + \sqrt{r} + 1 - \sqrt{r} = 2$$

$$r_1 + r_2 = \frac{a}{r} \quad (1) \quad r_2 = r r_1 \quad r_1 r_2 = \frac{r}{r} \quad (2) \quad r_1(r r_1) = \frac{r}{r} \rightarrow r_1^2 = \frac{r}{r} \rightarrow r_1 = \pm \frac{r}{r}$$

$$\begin{cases} r_1 + r r_1 = \frac{a}{r} \\ r r_1 = \frac{a}{r} \rightarrow a = r r r_1 \end{cases} \Rightarrow \begin{cases} a_1 = r(\frac{r}{r}) = 1 \\ a_2 = r(-\frac{r}{r}) = -1 \end{cases} \Rightarrow |a_1 - a_2| = |1 - (-1)| = 2$$

 $\Delta < 0$ $P = 0$ $\Delta > 0$

$$-\frac{b}{a} < 0 \Rightarrow -\frac{r}{a} < 0 \quad (r + r a)^r > 0 \rightarrow \text{no solution}$$

$$\hookrightarrow \frac{-r}{-r} = 1 \quad (-\frac{r}{r} > 0) \cap (0 < +\infty) = \emptyset \quad \text{hence } \lim_{x \rightarrow -\infty} f(x) = -\infty$$

$$\frac{b}{r a} = \frac{-a}{r} = \frac{r}{r} = 1 \Rightarrow \boxed{a = r} \quad \text{for } a = r \rightarrow 1 = r r_1 + r r_2 - r \rightarrow r_1^2 + r r_2 - r = 0$$

$$(r_1 + r^r)(r_2 - 1) = 0 \quad \text{for } a = r \rightarrow 1 = r r_1 + r r_2 + b \rightarrow r_1^2 + r r_2 + (1 - b) = 0$$

$$\Delta_1 = r^r f(-r) = r + 1 - 1 = 0 \quad \text{for } \frac{\sqrt{19}}{2} = r$$

$$\Delta_2 = r^r f(1 - b) = r - r + r b = r b \quad \text{for } \frac{\sqrt{r b}}{|a|} = r \sqrt{b} = r \Rightarrow \boxed{b = 1}$$

$$a \times b = r \times 1 = r$$

$$r r_1^2 - a r + b = 0 \quad A \rightarrow \alpha \quad \alpha + \beta = (r + s) + 1, \quad \alpha \cdot \beta = (r + s) \frac{1}{r} + \frac{1}{r} (r + s) + \frac{1}{r} = (r + s) + \frac{1}{r}$$

$$r r_2^2 + a r - b = 0 \quad D \rightarrow \gamma \quad A: \alpha + \beta = -\frac{-a}{r} = \frac{a}{r}, \quad \alpha \cdot \beta = \frac{b}{r}$$

