

$$\frac{-1}{2(a-1)} = r \quad (a-1 = -1) \quad a = \frac{r}{2}$$

$$J = -\frac{1}{r}n^r + n + r = 0 \quad n^r - (n-1)r = 0 \quad (n-1)(n+r) = 0$$

$$n = 1$$

$$\Delta > 0 \quad 4\omega - (n+r)^2 > 0 \quad n^r < \frac{r}{r} = 1 \quad \omega < \frac{r}{r} = 1 \quad \left\{ \frac{n}{r} < \frac{r}{r} = 1 \right.$$

$$S = r \quad \rightarrow n^r - rn + \frac{r}{q} \rightarrow 9n^r - 11n + 1$$

$$p = \frac{9-\omega}{9} = \frac{r}{9}$$

$$\alpha^r + \alpha^r \beta^r = 1 \quad \alpha - \beta = r \quad 19 - 11 = 8 = 1r$$

$$S = r \quad \beta = r - \alpha = r - \frac{r}{9} = \frac{8r}{9}$$

$$p = \frac{r}{9} \rightarrow \alpha p = \frac{r}{9} \times \frac{19-r}{9} = \frac{r}{9} \quad 19r - 11r = 8r = 1r$$

$$n^r - 11n + 1 = 0 \quad (n-1)^r = 0 \quad \boxed{n=1}$$

$$y = a(n-r)^r + 9 \quad n \rightarrow 1 \quad a + 9 = \omega \quad a = -1 \rightarrow y = -n^r + 11n + 1$$

$$-n^r + 11n + 1 > 0 \quad n^r - 11n - \omega < 0 \quad (n-1)(n+1) < 0 \quad \frac{-1}{+} \mid \frac{a}{-} \mid +$$

$$n \in (-1, 1)$$

$$\alpha n^r - \sqrt{n} + 9\beta = 0 \quad \alpha + \beta = \frac{\sqrt{n}}{\alpha} \quad \alpha\beta = \frac{9\beta}{\alpha} \quad \alpha^r \geq 9 \quad \alpha = \pm r$$

$$r + \beta \geq \frac{\sqrt{n}}{r} \quad \beta = \frac{-r}{r}$$

$$-r + \beta = -\frac{\sqrt{n}}{r} \quad \beta = \frac{r}{r} \quad \checkmark \quad \alpha = -r \rightarrow \frac{-1}{r} + \frac{r}{r} = \frac{-r+9}{r} = \frac{\sqrt{n}}{r}$$

$$n^r + mn - rm = 0$$

$$p = -rm \quad S = -m = \alpha + \beta$$

$$\alpha^r + (\alpha + \beta)\beta = 1 \quad \alpha^r + \beta^r + \alpha\beta = 1 \quad n^r + 11n - 11n = 1 \quad n^r + 11n - 11n = 1$$

$$(n+1)(n-1) = 0 \quad m = 1 \rightarrow n^r - 11n + 1 \rightarrow 0 \quad \checkmark \quad \text{JSE}$$

$$m = r \rightarrow n^r - 11n - r \quad \checkmark \quad \boxed{S = -m = -r}$$

$$y_{\max} = \frac{-D}{f_a} = \frac{-\left(14 - f_m \left(\frac{r}{f} + v\right)\right)}{f_m} = \frac{-\left(1 - m \left(\frac{r}{f} + v\right)\right)}{m} = 1 \quad -1$$

$$-1 + m \left(\frac{r}{f} + v\right) = 1m \quad -1 + \frac{r}{f} + vm = 1m$$

$$\frac{m}{f} = m - f_2 \rightarrow m^2 - fm = 1 \quad (m-f)(m+f) = 1$$

$$m = f \quad f_2 = f \quad m = f \quad f_2 = f$$

$$y_2 = -x^2 + 4x + 4 = 0 \quad x^2 - 4x - 4 = 0 \quad (x-2)(x+2) = 0$$

$$x = \frac{r}{f}$$

$$x = \frac{1}{f} \quad f_2 = f$$

$$y = a(n-r)^2 + 4 \rightarrow f_a + 4 = f \quad a = -\frac{1}{f}$$

$$-\frac{1}{f} (n^2 - 4n + 4) + 4 = 0 \quad -\frac{n^2}{f} + 4n - 4 + 4 = 0 \rightarrow n^2 - 4n - 4 = 0$$

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

$$\frac{n}{f} = f - 1a - 1 + f_a \rightarrow 4n + f = 0 \quad f_a^2 - 4a - 1 = 0$$

$$a^2 - 4a - 1 = 0 \quad \left(a - \frac{r}{f}\right)(f_a - 1) = (a-1)(f_a - 1)$$

$$a = 1 \quad a = -\frac{1}{f}$$

$$\underline{a=1} \rightarrow n^2 - 4n + 4 = 0 \quad (n-2)(n-2) = 0$$

$$n = 2 \quad \boxed{n = 2}$$

$$\underline{a = -\frac{1}{f}} \rightarrow n^2 - \frac{4}{f}n + \frac{4}{f} = 0 \quad f_a^2 - 4a + 1 = 0$$

$$n^2 - 4n + 4 = 0$$

$$(n-2)(n-2) = 0 \quad \boxed{n = 2}$$

$$n = 2$$