

11

13 (5) 14 (5) 15 (5) 16 (5) 17 (5) 18 (5) 19 (5) 20 (5) 21 (5) 22 (5) 23 (5) 24 (5) 25 (5) 26 (5) 27 (5) 28 (5) 29 (5) 30 (5) 31 (5) 32 (5) 33 (5) 34 (5) 35 (5) 36 (5) 37 (5) 38 (5) 39 (5) 40 (5) 41 (5) 42 (5) 43 (5) 44 (5) 45 (5) 46 (5) 47 (5) 48 (5) 49 (5) 50 (5) 51 (5) 52 (5) 53 (5) 54 (5) 55 (5) 56 (5) 57 (5) 58 (5) 59 (5) 60 (5) 61 (5) 62 (5) 63 (5) 64 (5) 65 (5) 66 (5) 67 (5) 68 (5) 69 (5) 70 (5) 71 (5) 72 (5) 73 (5) 74 (5) 75 (5) 76 (5) 77 (5) 78 (5) 79 (5) 80 (5) 81 (5) 82 (5) 83 (5) 84 (5) 85 (5) 86 (5) 87 (5) 88 (5) 89 (5) 90 (5) 91 (5) 92 (5) 93 (5) 94 (5) 95 (5) 96 (5) 97 (5) 98 (5) 99 (5) 100 (5)

$$y = (a - \frac{1}{\epsilon})u^r + u + r$$

$$\frac{-1}{ra - r} = r \Rightarrow a - \epsilon s - 1 \Rightarrow \{a \leq r\} \Rightarrow a \leq \frac{r}{\epsilon}$$

$$\frac{-1 \pm \sqrt{1 + \frac{r}{a}}}{-\frac{1}{r}} < \frac{\frac{r}{a} + 1}{-\frac{1}{r}} = -r \times$$

$$-\frac{1}{r} < \frac{-1 - r}{-\frac{1}{r}} \Rightarrow \boxed{4}$$

(5)

$$f(u) = mu^r - \delta u + m$$

$$\begin{matrix} u_1 & u_r \\ - & + & - \end{matrix}$$

$m < \star$

$$\Delta \rightarrow r\delta - r m^r > 0$$

$$r m^r < r\delta$$

$$m^r < \frac{r\delta}{\epsilon} \Rightarrow -\frac{\delta}{r} < m < \frac{\delta}{r} \star$$

$$\star \rightarrow -\frac{\delta}{r} < m < 0 \quad (-\frac{\delta}{r}, 0)$$

(5)

$$\frac{r - \sqrt{a}}{r}, \frac{r + \sqrt{a}}{r}$$

$$S = \frac{r - \sqrt{a} + r + \sqrt{a}}{r} = 2$$

$$y = u^r - \delta u + r$$

$$P = \frac{(r - \sqrt{a})(r + \sqrt{a})}{a} = \frac{a - a}{a} = \frac{\epsilon}{a}$$

$$y = u^r - r u + \frac{r}{a} \xrightarrow{\star 4} \text{...}$$

(1, 2)

$$ru^r - \lambda u + m + r = 0$$

$$\alpha^r + \beta^r s^r - r p = \frac{14 - m - r}{\epsilon} = 1\epsilon - m$$

$$\alpha < \beta$$

$$s = r$$

$$p = \frac{m + r}{r}$$

$$a - \beta = \frac{\sqrt{a}}{|\alpha|} = \frac{\sqrt{4\epsilon - \lambda m - 14}}{r} = \frac{\sqrt{4\epsilon - \lambda m}}{r}$$

$$r\alpha^r + \beta^r \leq 1r \Rightarrow r\alpha^r + \alpha^r + r\beta^r - \beta^r \leq 1r \Rightarrow r(\alpha^r + \beta^r) + (\alpha + \beta)(\alpha - \beta) \leq 1r$$

$$r\lambda - r m \oplus r\sqrt{4\epsilon - \lambda m} \leq 1r$$

$$14r - r m$$

$$r m = \frac{14}{r} \sqrt{4\epsilon - \lambda m} \Rightarrow \epsilon m^r + r\delta = r(\epsilon\lambda - \lambda m) \Rightarrow \epsilon m^r + r m + 4r = 0$$

$$m^r + \lambda m + 14 = 0 \quad (m + \epsilon)^r \Rightarrow \boxed{m \leq \epsilon}$$

(1)

$$s \mid \frac{r}{a}$$

$$y = \frac{-1}{a}(u - h)^r + k \Rightarrow y = \frac{-1}{a}(\frac{u - r}{u^r - \epsilon u + \epsilon} + a \Rightarrow \delta = a(r + a) \Rightarrow \epsilon a s - \epsilon \Rightarrow a s - 1$$

$$y = -u^r + \epsilon u - \epsilon + a \Rightarrow y = -u^r + \epsilon u + \delta$$

$$-(u^r - \epsilon u - \delta) = -(u - \delta)(u + 1) \quad \frac{-1}{1 + 1} = (-1, \delta)$$

(5)

$$\alpha u^r - \lambda u + a \beta s = 0$$

$$\alpha \beta^r - \lambda \beta + a \beta s = 0$$

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

$$\alpha \beta^r - \lambda \beta = -r \beta \Rightarrow \alpha \beta s = -r \Rightarrow \alpha s = -\frac{r}{\beta} \Rightarrow \alpha = -\frac{r}{\beta} \Rightarrow \beta \leq \frac{r}{\alpha}$$

(5)

$$u^r + mu - pm = 0$$

$$\alpha^r - m/s \leq 1 \Rightarrow pm - m\alpha - m\beta = 1$$

$$s = ? \quad pm - m(\alpha + \beta) = 1 \Rightarrow pm + m^r = 1 \Rightarrow m^r + pm - 1 = 0$$

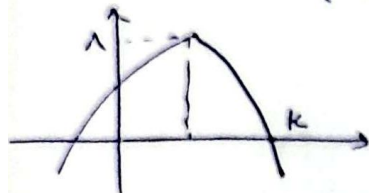
$$(m+1)(m-1) = 0$$

$$\begin{cases} m \leq 1 \\ m+1 = 1 \Rightarrow m = -1 \\ m-1 = 0 \Rightarrow m = 1 \end{cases}$$

$$\alpha^r + m\alpha - pm = 0 \Rightarrow \alpha^r = pm - m\alpha$$

$$s = -m = \boxed{-1}$$

$$f(u) = mu^r + \xi u + \frac{m}{r} + V$$



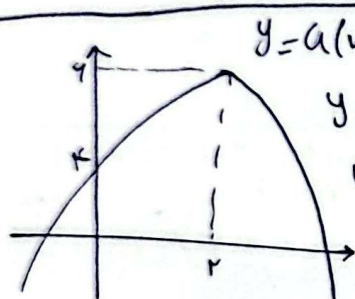
$$\frac{-\Delta}{2a} = 1 \Rightarrow \frac{-(14 - (r)(m)(\frac{m}{r} + 1))}{2m} = \frac{-(14 - pm - pm)}{2m} = 1$$

$$pm^r + p/m - 14 = pm$$

$$pm^r - \xi m - 14 = 0 \Rightarrow m^r - pm - 14 = 0 \Rightarrow (m-1)(m+1) = 0$$

$$-u^r + \xi u + 4 = 0$$

$$-u^r + \xi u + 4 = 0 \Rightarrow u^r - \xi u - 4 = 0 \Rightarrow (u-1)(u+1) = 0$$



$$y = a(u-h)^r + k \Rightarrow y = a(u-1)^r + 4$$

$$k = a(1) + 4$$

$$\xi a = 1 \Rightarrow a = \frac{1}{\xi}$$

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

$$y = -u^r + \xi u + 1 \Rightarrow y = -u^r + \xi u + 1 \Rightarrow u^r - \xi u - 1 = 0$$

$$\frac{\xi \pm \sqrt{14 + 14}}{2} = \frac{\xi \pm \xi\sqrt{2}}{2} = \frac{1 \pm \sqrt{2}}{2} \Rightarrow \frac{1}{r-1} = \frac{1}{r-1} \Rightarrow \frac{1}{r-1} = \frac{1}{r-1} \Rightarrow \frac{1}{r-1} = \frac{1}{r-1}$$

$$u^r - (ra + \xi)u + (ra^r + 4a + r) = 0$$

$$\xi - r(\xi a + \xi) + ra^r + 4a + r = 0$$

$$\xi - 1a - 1 + ra^r + 4a + r = 0 \Rightarrow ra^r - ra - 1 = 0$$

$$\frac{r + \sqrt{14 + 14}}{4} = \frac{1}{r}$$

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

$$a = -\frac{1}{r} \Rightarrow u^r - (\frac{1}{r})u + \frac{\xi}{r} = 0 \Rightarrow \frac{4\xi}{a} - \frac{14}{r} = \frac{4\xi - 14}{a} = \frac{14}{a} \Rightarrow \frac{1}{r} \pm \frac{\xi}{r} = \frac{1}{r} \Rightarrow \frac{1}{r} = \frac{1}{r}$$