

$$a = -1 \Rightarrow a - b + c = 9 \quad m, r = 1 \Rightarrow 9a + 11b + c = 1 \quad \frac{0}{a} = -1 \Rightarrow b = 19 \quad -1$$

$$\Lambda a + \Lambda a = -1 \Rightarrow a = -\frac{1}{r}, b = -1 \Rightarrow a + b + c = 9$$

$$\Rightarrow -\frac{1}{r} + 1 + c = 9 \Rightarrow c = \frac{10}{r} \Rightarrow \frac{-m^r}{r} - m + \frac{10}{r} = 0 \quad \sigma \sqrt{\frac{10}{r}}$$

$$\Delta > 0 \Rightarrow m^r - \epsilon(r)(m+4) > 0 \Rightarrow m^r - \Lambda m - \epsilon \Lambda > 0 \quad \beta \quad -1$$

$$\Rightarrow (m-11)(m-1) > 0 \quad \frac{-1 \pm 12}{+1 - 1} \Rightarrow (-\infty, -1) \cup (11, +\infty)$$

$$\alpha + \beta = \frac{1}{\alpha \cdot \beta} \Rightarrow \frac{-b}{a} = \frac{1}{\frac{c}{a}} \Rightarrow \frac{-b}{a} = \frac{a}{c} \quad -1$$

$$\Rightarrow \frac{-2m+1}{r} = \frac{r}{r-m} \Rightarrow -2m^2 - 2m + r = 9 \Rightarrow 2m - 2m - 1 = 9 \Rightarrow 2m - 2m - 1 = 9$$

$$\Rightarrow m^r - m - 1 = 9 \Rightarrow (m-1)(m+1) = 10 \Rightarrow m = \frac{10}{m-1} \Rightarrow m = 2$$

$$m_1 + m_2 = 1, m_1 m_2 = -1 \quad m_1^r + \frac{1}{m_1^r} = A \quad m_2^r + \frac{1}{m_2^r} = B \quad -1$$

$$\Rightarrow A + B = \frac{1}{m_1} + \frac{1}{m_2} + m_1^r + m_2^r = \frac{m_1 + m_2}{m_1 m_2} - m_1^r + m_2^r = 1 - \frac{1}{r} = \frac{r-1}{r}$$

$$AB = \left(\frac{1}{m_1} + m_1^r\right) \left(\frac{1}{m_2} + m_2^r\right) = m_1^r m_2^r \Rightarrow \frac{m_1 + m_2}{m_1 m_2} = 9 \Rightarrow$$

$$m_1^r + m_2^r = (m_1 + m_2)^r - 2m_1 m_2 = 1 - 2(-1) = 1$$

$$\Rightarrow AB = \frac{1}{1} - 9 - 2 = -10 \Rightarrow -10 = -10$$

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

$$\Rightarrow S = \frac{b}{a} = \frac{-(-1)}{1} = 1$$

$$p = \alpha \beta = \frac{c}{a} = \frac{r}{r} \Rightarrow \alpha = \pm \frac{r}{r} \quad -1$$

$$S = \alpha + \beta = \frac{a}{c} = \frac{\pm 1}{r} = \frac{a}{r} \Rightarrow a = \pm 1 \Rightarrow a = 1$$

$$a = 1$$

$$c = 0 \Rightarrow \sqrt{a}$$

$$\Rightarrow \text{[scribbled out text]}$$

$$\frac{-b}{a} \geq 0 \Rightarrow \frac{-(-1)}{1} \geq 0 \Rightarrow \frac{1}{1} \geq 0 \Rightarrow a \in [-1, 1]$$

