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$$x = \alpha \lambda + r \lambda \quad S = \frac{-(-a)}{1} = a \quad P = r \quad r = \alpha \beta$$

$$\beta = \frac{r}{\alpha} \quad \frac{f\alpha + \beta^2}{\alpha\beta^2} = \frac{f\alpha}{\alpha\beta^2} + \frac{\beta^2}{\alpha\beta^2} = \frac{r\alpha}{\frac{r^2}{\alpha^2}} + \frac{\beta^2}{\frac{r^2}{\alpha^2}} = \frac{\alpha^2 + \beta^2}{\frac{r^2}{\alpha^2}} = \frac{(\alpha + \beta)^2 - 2\alpha\beta}{\frac{r^2}{\alpha^2}}$$

$$u'' = \frac{(rx + \lambda a)}{a} = \frac{qa}{a} = 19$$

$$-f = qa + rb + c \quad b = \frac{1}{a}a = \delta = \frac{-b}{a} = \frac{-(1/\alpha\alpha)}{a} = 1/a$$

$$-f = r/r\alpha a = 1/a b + c$$

$$|\alpha - \beta| = \frac{|\Delta|}{|a|} = \frac{\sqrt{fK^2 - f\lambda a}}{1} = \frac{f}{r}K \quad r\sqrt{K^2 - a} = \frac{f}{r}K$$

$$r\sqrt{K^2 - a} = rK \quad aK^2 - f\lambda a = fK^2 \quad aK^2 = f\lambda \quad K^2 = \frac{f}{a} \quad \begin{bmatrix} 9 \\ -1 \end{bmatrix} = \begin{bmatrix} f/a \\ 1 \end{bmatrix} = f$$

$$\frac{-b}{ra} = \frac{-a+r}{r} = \frac{-b}{a} = \delta = -r \quad \delta(-1, 1)$$

$$\alpha^2 + \beta^2 = a \quad (-r)^2 - rP = a \quad P = -\frac{1}{r} \quad g = a(\alpha^2 + r\alpha - \frac{1}{r})$$

$$g = 1 \quad \lambda = -1 \quad a(-1)^2 - r(-\frac{1}{r}) = 1 \quad a = -\frac{r}{r} \quad y = -\frac{r}{r}(\alpha^2 + r\alpha - \frac{1}{r}) = \frac{r}{r}$$

$$y = -\frac{r}{r}(\alpha^2 + r\alpha - \frac{1}{r}) = \frac{1}{r}$$

$$\textcircled{1} \quad x = \frac{-a \pm \sqrt{ra + fm}}{-r} \rightarrow \frac{-a \pm \sqrt{ra + fm}}{-r} < \frac{9}{r}$$

$$-a + \sqrt{ra + fm} < 9 \rightarrow \sqrt{ra + fm} < f \quad ra + fm < f^2 \quad m < \frac{9}{r}$$

$$\textcircled{2} \quad \Delta > 0 \quad ra + fm > 0 \quad -\frac{ra}{f} < m \quad -\frac{ra}{f} < m < \frac{-9}{r} \quad -r = f - a - 9, \text{ not f}$$

$$y_{mn} = r = \frac{-(1/f - r\alpha m + fm)}{fm} \quad \Delta m^2 - m - r = 0 \quad \Delta m^2 - r m - r = 0$$

$$(dm + r)(m - r) = 0 \quad m = r \quad m = -\frac{1r}{a} \quad m > 0$$

$$m = r \quad y = \frac{r}{r} = 1 \quad x = 1 \quad -\frac{b}{ra} = \frac{1r}{a} = r \quad x = r$$

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$$\alpha = 0 \quad \beta = 1 \quad \alpha^2 \geq \alpha\beta \geq \beta \quad r_{\alpha-1} \leq \alpha \leq r_{\alpha+1} \leq 0 \quad -v$$

$$\frac{\alpha}{x_9} \quad \frac{\beta}{x_9} \quad (a-1)^2 \geq 0 \quad [a \geq 1]$$

$$x^2 - vx - a \geq 0 \quad t^2 - vt - a \geq 0 \quad t = \frac{v \pm \sqrt{v^2 + 4a}}{2} \quad \textcircled{1} \quad \frac{v + \sqrt{v^2 + 4a}}{2}$$

$$\textcircled{2} \quad \frac{v - \sqrt{v^2 + 4a}}{2}$$

$$x^2 \geq \frac{v + \sqrt{v^2 + 4a}}{2} \quad x = \left(\frac{v + \sqrt{v^2 + 4a}}{2} \right) \geq 0$$

$$S \geq 0 \quad p_2 = \left(\frac{v + \sqrt{v^2 + 4a}}{2} \right) \quad r p^2 - r s p + r s_2 = r \left(\frac{v + \sqrt{v^2 + 4a}}{2} \right)^2 - 0 + 0 = \frac{v^2 + 4a + 1 + 2v\sqrt{v^2 + 4a}}{4}$$

$$= \frac{v^2 + 4a + 1 + 2v\sqrt{v^2 + 4a}}{4}$$

$$y = kx^2 - fx - a \quad S \mid \frac{r}{k}$$

$$\frac{-(14 + rfk)}{rk} \quad \frac{-f - 4k}{k}$$

$$y = -fx - f \quad -f \left(\frac{r}{k} \right) - f = \frac{-f - 4k}{k} \quad \frac{-1 - rk}{k} \quad \frac{-f - 4k}{k} \quad \frac{-f + rk}{k} \geq 0 \quad k \geq r$$

$$\frac{-f - 4k}{k} \geq \frac{-f - 4(r)}{r} \quad \geq -1$$

$$\left. \begin{aligned} y &= -mx^2 + m(x+1) \\ y &= -m - x \end{aligned} \right\} \quad -mx^2 + m(x+1) = -m - x \quad mx^2 + (-m-1)x - m - 1 = 0$$

$$\Delta < 0 \quad (m+1)^2 + 4m(m+1) < 0 \quad (m+1)(m+1+4m) < 0 \quad (m+1)(5m+1) < 0$$

$$\begin{array}{c|c|c} -1 & -\frac{1}{5} & \\ \hline + & - & + \end{array} \quad m \in \left(-1, -\frac{1}{5} \right) \quad m = -1 \quad m = -\frac{1}{5}$$