

$$P = \frac{c}{a}, S = \frac{-b}{a} \Rightarrow P = -1, S = 1 \Rightarrow 1 - 1 + 1 = 1 \Rightarrow -1 + (1 + 1) + 1 = \boxed{109}$$

$$kx^2 - 1x - 9 = -1x - 1 \Rightarrow kx^2 = 1x - \frac{-b}{a} \quad k \times \frac{1}{1} = 1$$

$$\Rightarrow k = \frac{1}{1} \Rightarrow y_s = \frac{-\Delta}{1} \Rightarrow \frac{-(19 + 12)}{1} = \boxed{-14}$$

$$mx^2 - (m+1)x - (1+m) = 0 \Rightarrow m^2 + 9m + 1 < 0 \Rightarrow m \begin{matrix} \nearrow -1 \\ \searrow -10 \end{matrix}$$

$$\begin{array}{c|c|c} -1 & -\frac{1}{9} & \\ \hline + & - & + \end{array} \Rightarrow -1 < m < -\frac{1}{9}$$

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$$\left. \begin{aligned} x^r - 2x + r = 0 \Rightarrow \frac{c}{a} = r = \alpha + \beta = s \\ \Rightarrow \frac{-b}{a} = d = \alpha\beta = p \end{aligned} \right\} \frac{f\left(\frac{r}{p}\right) + \beta^d}{d\beta^r} = \frac{\frac{1}{\beta} + \beta^d - 1}{d\beta^r}$$

$$= \frac{a^r \cdot \beta^r + \beta^s}{d\beta^r} = \frac{a^r}{d} + \frac{\beta^r}{d} = \frac{s^r - r s p}{d} = \frac{12d - r(d)(r)}{d} = \boxed{19}$$

$$\frac{r-1/d}{r} = 1/d = x_s = \frac{-b}{ra} = \frac{x_1 + x_r}{r} \Rightarrow x_1 + x_r = 1/d$$

$$\frac{\sqrt{\Delta}}{|a|} = \sqrt{\frac{4 \cdot f_k^r - r_0}{1}} = \frac{f_k}{r} \Rightarrow f_k^r - r_0 = \frac{1}{9} k^r$$

$$\Rightarrow r f_k^r - 11a - 14k^r = r \cdot k^r - 11a = 0 \Rightarrow k^r = 9 \Rightarrow \left[\frac{9}{r}\right] = \boxed{r}$$

$$\frac{x_1 + x_r}{r} = x_s \Rightarrow \frac{r-d}{r} = x_s = -1 \Rightarrow \frac{\alpha + \beta}{r} = -1 \Rightarrow s = -r$$

$$\alpha^r + r\alpha\beta + \beta^r = -r \Rightarrow r\alpha\beta + d = -r \Rightarrow \alpha\beta = \frac{-r}{r} \Rightarrow a x^r + s x + p = 0$$

$$\cancel{a x^r + s x + p = 0} \quad a x^r - r x - \frac{r}{r} = 0 \xrightarrow{x=0} \boxed{y = -\frac{r}{r}}$$

$$\Delta = r d + r m > 0 \Rightarrow m > \frac{-rd}{r}, \quad \frac{-d + \sqrt{rd + r m}}{-r} < \frac{9}{r} \Rightarrow \sqrt{rd + r m} < -r$$

$$\Rightarrow m > \frac{9}{r}, \quad \frac{-d - \sqrt{rd + r m}}{-r} > \frac{9}{r} \Rightarrow m < \frac{9}{r} \quad \text{I} \cap \text{II} \Rightarrow$$

$$\frac{-rd}{r} < m < \frac{9}{r} = \boxed{r9}$$

$$\cancel{m > 0}, \quad m > 0, \quad \frac{-d}{ra} = r \Rightarrow \frac{-(14f - r \cdot m^r + r m)}{r m} = r \Rightarrow d m^r - r m - r r = 0$$

$$\Rightarrow m = r, \quad \frac{-1r}{d} \text{ I} \cap \text{II} \Rightarrow m = r \Rightarrow r x^r - 12x + 14 = 0 \Rightarrow x_s = \frac{-b}{ra}$$

$$\frac{12}{4} = \boxed{r} \quad \frac{x_1 + x_r}{r} = x_s \Rightarrow \frac{r-d}{r} = -1 \Rightarrow \frac{-b}{ra} = -1 \xrightarrow{r=2} \frac{-b}{a} = -r = s$$

$$\alpha^r + \beta^r = d \Rightarrow s^r - r p = d \Rightarrow r - r p = d \Rightarrow p = \frac{1}{r}$$

$$\Rightarrow \frac{c}{a} = -\frac{1}{r} \xrightarrow{c = \frac{1}{ra}} a x^r + r a x = -\frac{1}{r} a \Rightarrow x = 1$$

$$\Rightarrow a = \frac{r}{r} \Rightarrow \frac{1}{r} a = \frac{1}{r} \times \frac{r}{r} = \boxed{\frac{1}{r}}$$

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