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$$1 + m \left(\frac{y}{m} \right)' - 12 \left(\frac{y}{m} \right) + dm - 1 = \frac{-2y}{m} + dm - 1$$

$$\Rightarrow 1 + m = -2y + dm \Rightarrow dm - (m - 2y) = 0 \Rightarrow m' - (m - 11) = 0$$

$$\Rightarrow (m - 12)(m + 11) = 0 \Rightarrow m = 11$$

$$\Rightarrow \beta = 1, \alpha = 10$$

$$\Rightarrow \frac{-b}{2a} = \frac{y}{m} = \frac{y}{c} = 1$$

$$\alpha \beta = a' + 1 \Rightarrow a' - 11 + 1 = 0 \Rightarrow (a - 1)' = 0$$

$$\Rightarrow \boxed{a = 1}$$

$$x' = \delta \Rightarrow \delta' - V\delta - d = 0 \Rightarrow \delta = \frac{V \pm \sqrt{V^2 + 4d}}{2}$$

$$\Rightarrow x = \pm \sqrt{\frac{V \pm \sqrt{V^2 + 4d}}{2}} \Rightarrow \delta = 0$$

$$\Rightarrow \beta = \sqrt{\delta} \alpha(-\sqrt{\delta}) = -\delta = \frac{-V - \sqrt{V^2 + 4d}}{2}$$

$$\Rightarrow 1\beta' - c\beta + 15 = 1\beta' + x \left(\frac{19 + 49 + 1\sqrt{49}}{1} \right) = \frac{111 + 1\sqrt{49}}{2} = \boxed{d = 1 + \sqrt{49}}$$

$$ex \delta = \left| \frac{y}{k} \right| \Rightarrow \frac{-(4k + f)}{k} = -4 - \frac{f}{k}$$

$$\Rightarrow y = -fx - f \Rightarrow -4 - \frac{f}{k} = \frac{-1}{k} - f \Rightarrow -2 = \frac{-f}{k} \Rightarrow k = 2$$

$$y_{ext} = -4 - \frac{f}{k} = -4 - \frac{f}{2} = \boxed{-1}$$

$$-m x' + m x + 1 = -m - x \rightarrow \text{characteristic equation}$$

$$\Rightarrow -m x' + (m + 1)x + 1 + m = 0 \Rightarrow (m + 1)' + 1m(1 + m) = (1 + m)(dm + 1) < 0$$

$$\Rightarrow \frac{-1}{1} \pm \frac{-1}{1} = 0$$

$$\Rightarrow m \in (-1, -\frac{1}{2})$$

$$\boxed{\text{conclusion}}$$