

(2)

② 15 Jan

(r)

(2)

(7)

①

③



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

$$\Rightarrow 12m = -2y + dm \Rightarrow dm - (m - 2y) = 0 \Rightarrow m^2 - 12m + 11 = 0$$

$$\Rightarrow (m-1)(m+11) = 0 \Rightarrow m = 1$$

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

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

$$\alpha \beta = a^2, \gamma a = 1 \Rightarrow a^2 - \gamma a + 1 = 0 \Rightarrow (a-1)^2 = 0$$

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

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

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

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

$$\Rightarrow 12P^2 - 2SP + 2S = 12P^2 + P \left( \frac{19 + 49 + 1 \pm \sqrt{49}}{2} \right) = \frac{119 + 1 \pm \sqrt{49}}{2} = \boxed{d \pm \sqrt{V^2 + 4d}} \checkmark$$

$$ex \delta = \left| \frac{y}{k} \right|$$

$$\frac{-(4k + f)}{k} = -4 - \frac{f}{k}$$

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

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

$$-m x' + m x + 1 = -m - x \rightarrow$$

$$\Rightarrow -m x' + (m+1)x + 1 + m \xrightarrow{\Delta < 0} (m+1)^2 + 4m(1+m) = (1+m)(d+m) < 0$$

$$\Rightarrow \frac{-1}{2} < x < \frac{-1}{2}$$

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

$$\boxed{\text{расход}} \checkmark$$