

$$\begin{cases} 5x - y = 9 \rightarrow 5x - y = 9 \\ x + 2y = -8 \rightarrow x + 2y = -8 \end{cases} \rightarrow \begin{cases} 5x - y = 9 \\ -x - 2y = -8 \end{cases} \rightarrow \begin{cases} 6x + y = 1 \\ -x - 2y = -8 \end{cases}$$

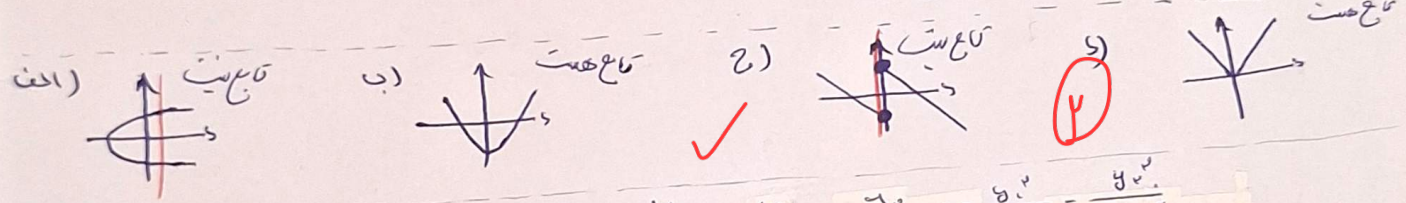
$$\begin{cases} \frac{1}{x} - \frac{1}{y} = -1 \rightarrow y - x = -xy \rightarrow xy - x = -xy \\ \frac{5}{x} - \frac{2}{y} = -9 \rightarrow \frac{5y}{x} - 2 = -9 \rightarrow 5y - 2x = -9xy \end{cases}$$

$$f(a) + 2f(b) = 3f(c) \rightarrow 2a + 2b = -c, a + 1 = -c \rightarrow a = -c$$

$$2(-c) + 2b = -c \rightarrow b = 0$$

$$m^2 - 4m = -4 \rightarrow m^2 - 4m + 4 = 0 \rightarrow (m-2)(m-2) = 0$$

$m=2 \rightarrow (2, 4)$
 $m=1 \rightarrow (1, 4)$



$$J = -\sqrt{a+1}$$

$$y^2 - y_1^2 y_2^2 = y^2 - y_1^2 y_2^2 \rightarrow \frac{y^2}{y_1^2 y_2^2} = \frac{y^2}{y_1^2 y_2^2}$$

$$|y| = x \xrightarrow{x=1} y \in \{-1, 1\}$$

$$y^2 + 2y + 2 = 0 \rightarrow (y+1)^2 = -1$$

$$f(x) = \frac{x^2 + 5x + 6}{x^2 + 2x + 1} \rightarrow \frac{(x+2)(x+3)}{(x+1)^2} = \frac{(\sqrt{x-2}+1)^2 + 1}{(\sqrt{x-2}+1)^2 + 0} = \frac{x+1}{x+0} = \frac{x}{x}$$

$$f(x) = x^2 + ax + b$$

$$-2 = -0 - a \rightarrow a = 2$$

$$-2 = -1 - 1 + b \rightarrow b = 0$$

$$g = 2x - a$$

$$a + b = ka \rightarrow a = b$$

$$a - kb + 1 = ka \rightarrow a + 1 = ka \rightarrow ka = a + 1 \rightarrow a = \frac{1}{k}$$

$$f(x) = \frac{5x^2 - 8x + 1}{bx + c} = x \rightarrow bx^2 + cx = 5x^2 - 8x + 1$$

$$b = 5, a = -8, c = 1$$

$$b + a + c = 5 - 8 + 1 = -2 \neq 0$$