

Spillover

$$y = ax^2 + bx + c \quad A(-1, 9)$$

$$\frac{b}{a} = -1 \quad b = -a \quad -a + 10a + c = 9 \quad 9a = -1 \quad a = -\frac{1}{9}$$

$$9a + 9a + c = 1 \quad b = -1$$

$$y = ax^2 + bx + c \quad -a + c = 9 \quad c = \frac{10}{9}$$

$$y = -\frac{1}{9}x^2 - x + \frac{10}{9}$$

$$y = x^2 + mx + m + 9 = 0 \quad \frac{b}{a} = \frac{-m}{1} > 0 \quad \frac{c}{a} = \frac{m+9}{1} > 0$$

$$\Delta > 0 \quad m^2 - 4m - 36 > 0 \quad m < -4 \quad m > 9$$

$$(m+11)(m-9) > 0$$

$$\frac{-11}{-1} < \frac{9}{-1}$$

$$m < -11, 9 < m$$

$$-9 < m < -11$$

$$y = x^2 + (m-1)x + m-9 = 0$$

$$\Delta > 0 \quad m^2 - 2m - 1 > 0 \quad (a+b) = \frac{1}{m-1} \cdot \frac{a}{c}$$

$$m^2 + 4m - 5 > 0$$

$$\frac{1-m}{m} = \frac{1}{m-1}$$

$$x = 1 = \frac{1}{m-1}$$

$$x = \frac{1}{m-1}$$

$$x = \frac{1}{m-1} + \frac{1}{m-1}$$

$$m^2 - 2m - 1 > 0$$

$$(m-1)(m+1) > 0$$

$$m = \frac{1}{1}$$

SUBJECT:

$$x' - 5x + 1 = 0 \quad x' - \frac{1}{x} = \frac{1}{x} - \frac{1}{x} = 0 \quad x' - 5x - 1 = 0$$

$$-4f - \frac{1}{f} + 9 = -\frac{11}{f}$$

$$x' - x - 1 = 0 \quad x_1 + x_2 = 1 \quad x_1 x_2 = -1 \quad (14)$$

$$x_1' + x_2' = \frac{1}{x_1} + \frac{1}{x_2} \quad x_1' + x_2' = \frac{1}{x_1} + \frac{1}{x_2} = \frac{x_1 + x_2}{x_1 x_2} = \frac{1}{-1} = -1$$

$$H'' \quad \frac{x_1 + x_2}{x_1 x_2} = \frac{1}{-1} = -1 \quad P_1 \left(x_1' + \frac{1}{x_1} \right) \left(x_2' + \frac{1}{x_2} \right) = \frac{(x_1 + x_2)(x_1' + x_2')}{x_1 x_2} = \frac{1(-1)}{-1} = 1$$

$$x' \sqrt{x} - \sqrt{x} = 1 - \frac{1}{\sqrt{x}} + \sqrt{x} - 1 = \sqrt{x}$$

$$(x-1) \sqrt{x} - \frac{\sqrt{x}}{x} = 0$$

$$x(x-1) = 1 \quad x^2 - x - 1 = 0$$

$$x_1 + x_2 = 1$$

(14)

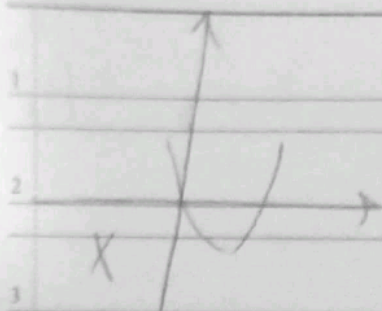
$$x_1 = \frac{1}{x_2} \quad x_1 = \frac{1}{x_2}$$

$$f(x) = \frac{a}{x}$$

$$\frac{1}{x} = \frac{1}{x} \quad x = \frac{1}{x} \quad x = \pm 1$$

$$f\left(\pm \frac{1}{x}\right) = \frac{a}{\pm \frac{1}{x}} = \pm a$$

$$x \rightarrow x - (-1) = 14$$



$$C = (-1) \frac{1}{100}$$

a).

$$\frac{c}{a} = -\frac{b}{a}$$

$$-\frac{(-1) \frac{1}{100}}{a}$$

$$-\frac{1}{a} + \frac{1}{a}$$

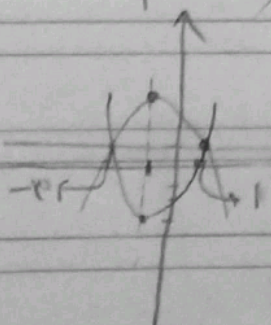
$$a \text{ (has } \frac{1}{a} \text{)}$$

$$\frac{1}{a} < a$$

$$\frac{1}{a} = \frac{1}{a}$$

$$a = 1$$

$$-x^2 - 2x + b, x^2 + 2x - 1$$



$$\frac{1}{a} = -1$$

$$x = 1$$

$$\frac{1}{a} = -1$$

$$-1 + b = 1$$

$$b = 2$$

$$x^2 + 2x - 1 = 1$$

$$x^2 + 2x - 2 = 0$$

$$ab = 1$$

$$y = at^2 + at - 9 = y \left(t + \frac{1}{t} \right)^2 - a \left(t + \frac{1}{t} \right) + b$$

$$y = at^2 + at - 9, \quad y = \left(t + \frac{1}{t} \right)^2 - a \left(t + \frac{1}{t} \right) + b$$

$$\frac{1}{t} + b = -9$$

$$b = -9$$

$$y = \left(t + \frac{1}{t} \right)^2 - a \left(t + \frac{1}{t} \right) + b, \quad y = at^2 + at - 9$$

$$\begin{bmatrix} a \\ b \end{bmatrix} = \begin{bmatrix} -9 \\ -9 \end{bmatrix} = \begin{bmatrix} -9 \\ -9 \end{bmatrix} = \begin{bmatrix} -9 \end{bmatrix}$$

$$x' + \gamma x - \gamma m = x' + \gamma x + m$$

$$x' + \gamma x - \gamma m = x' + \gamma x + m$$

$$\gamma x = -\gamma m$$

$$x = -m$$

$$m' = \gamma m + m$$

$$m' = \gamma m$$

$$m = 0 \Rightarrow x' + \gamma x = 0$$

$$|1 - (-1)| = 2$$

$$\frac{(x + \gamma)(x - \gamma)}{-\gamma \quad \gamma}$$

$$x' + \gamma x = 0$$

$$\frac{(x + \gamma)(x - \gamma)}{-\gamma \quad -1}$$