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DATE

SUBJECT

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

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

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

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

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

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

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

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

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

$$-9 < m < -11$$

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

$$y = x^2 + (m-1)x + m = 0 \quad \frac{b}{a} = \frac{-(m-1)}{1}$$

$$\Delta = (m-1)^2 - 4m = 0 \quad (a+b) = \frac{1}{m} \cdot \frac{a}{c}$$

$$m^2 - 6m + 1 = 0$$

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

$$x = 1 = \frac{1}{m} < 0$$

$$x = \frac{1}{m} = 0 \quad m = 1$$

$$x = \frac{1}{m} + \frac{1}{m} = \frac{2}{m}$$

$$m^2 - 6m + 1 = 0$$

$$(m-3)(m-1) = 0$$

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

SUBJECT:

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

$$-4x - \frac{1}{x} + 9 = -\frac{1}{x}$$

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

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

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

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

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

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

$$x_1 + x_2 = 1$$

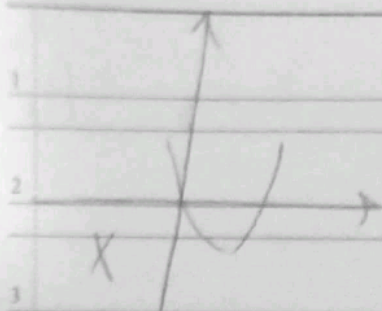
(9)

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

$$x x_2 = \frac{a}{x} \quad \frac{1}{x} x_2 = \frac{a}{x} \quad x_2 = \frac{a}{x}$$

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

$$x(x-1) = 1$$



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

a).

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

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

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

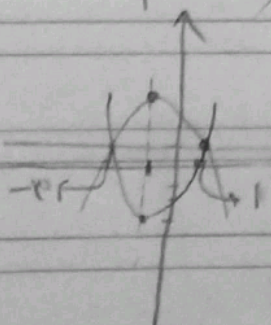
$$a \text{ (has } \frac{1}{a} \text{)}$$

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

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

$$a = 1$$

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



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

$$x = 1$$

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

$$1 - x - x - y$$

$$-1 - y + b = 1$$

$$b = 2$$

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

$$x^2 + x - y = 1 \Rightarrow \frac{1}{a} = 1$$

$$ab = 1$$

$$y a + \frac{1}{a} = -y \Rightarrow y \left(1 + \frac{1}{a}\right) = -a \left(1 + \frac{1}{a}\right) + b$$

$$y a + \frac{1}{a} = -y \Rightarrow y \left(1 + \frac{1}{a}\right) = -a \left(1 + \frac{1}{a}\right) + b$$

$$\frac{1}{a} + b = -y$$

$$b = -y$$

$$y \left(1 + \frac{1}{a}\right) = -a \left(1 + \frac{1}{a}\right) + b \Rightarrow y a + \frac{1}{a} = -a - 1 + b$$

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

$$\chi^T + \chi - \psi m_{\pm 2} = \chi^T + \psi \chi + m_{\pm 2}$$

$$\chi^T + \chi - \psi m_{\pm 2} = \chi^T + \psi \chi + m_{\pm 2}$$

$$\psi \chi = -\psi m$$

$$\chi = -m$$

$$m^T = \psi m + m_{\pm 2}$$

$$m^T = \psi m$$

$$m = 0 \Rightarrow \chi + \psi \chi = 0_{\pm 2}$$

$$|\psi - (-1)| = \boxed{2}$$

$$\psi \chi + \psi \chi = 0_{\pm 2}$$

$$\chi^T + \psi \chi + \psi \chi = 0_{\pm 2}$$

$$(\chi + \psi)(\chi + \psi) = 0_{\pm 2}$$