

To

MC (with glass)

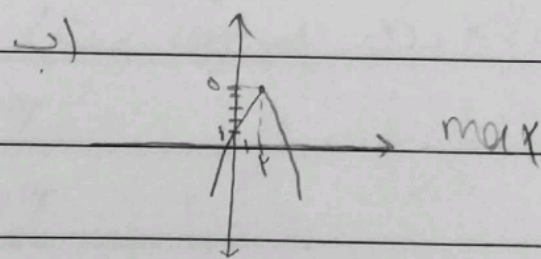
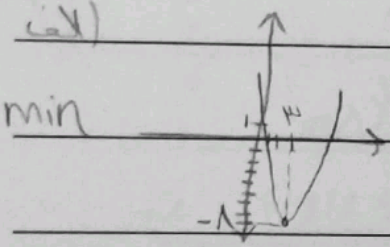
June 1st

ا) $y = P x^r - K x + 1$ or $\begin{cases} -\frac{b}{a} = \frac{K}{P} = 1 \\ P - K + 1 = -1 \end{cases}$ or $\begin{cases} \min \\ 15 \end{cases}$

ب) $y = -P x^r + K x - 1$ or $\begin{cases} -\frac{b}{a} = \frac{K}{P} \\ -K + 1 = 0 \end{cases}$ or $\begin{cases} \max \\ 15 \end{cases}$

ا) $y = x^r + 9x + 1$ $\frac{9}{P} = 10, 9 - 10 + 1 = -1$

ب) $y = -x^r + Kx + 1$ $\frac{K}{-P} = 1, -K + 1 = 0$



$K x^m + K x^r - 9x - 1 = 0$ So $a + b = 1$ $P a b = -1$

$10r + K - 10K = 0$ $x^r - 9x + 1 = 0$

$-10 + K + 9 - 1 = 0$ $K = x^r - x - 1 = (x-1)(x+1)$

$K = -10$

$x^r - 10m x + m = 0$ $\sqrt{a} - \sqrt{b} = 1$ $a + b = 1$ $\sqrt{a b} = 1$

$P x^r - m x - m = 0$ $10m \sqrt{m} = 1$ $\sqrt{m} = \frac{1}{10}$

$a b = \frac{c}{a} = -\frac{m}{P} = \left(-\frac{1}{P}\right)$ $10x \cdot 10x^r - 1 = 1$ $\sqrt{m} = 1$ $\sqrt{m} = 1$

$9x^r - 9x - 10 = 0$ $\sqrt{m} = \frac{1}{10}$

$$y = Px^r - (m+r)x + m$$

$$\frac{m+r + \sqrt{m^2 + (m+r)^2 - 4m(m-r)}}{P} = \frac{m+r + m}{P} = \frac{2m+r}{P}$$

$$\frac{m+r}{P} = \frac{m}{P}$$

$$\frac{m^2 - 4m}{P} = \frac{P}{P}$$

$$m^2 - 4m = P$$

$$y = x^r - mx + 1$$

$$y = x^r + x + 1$$

$$y = x^r - 10x + 1$$

$$\frac{-b}{2a} = \frac{-1}{1} = 1$$

$$y = ax^r + 10x + a$$

$$\frac{-\Delta}{4a} = \frac{100 - 4}{4a} = \frac{96}{4a}$$

$$100 - 4 = 96$$

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$$(10 - 4)(10 + 4)$$

$$10 - 4 = 6$$

$$x_1 = x_1 + 1 \quad x_2 = x_2 + 1 \quad |a-1|$$

$$\frac{\Delta}{4a} = \frac{100 - 4}{4a} = \frac{96}{4a}$$

$$|a-1| = 1$$

$$a-1 = \pm 1$$

$$a = 2, -1$$

$$x^r - 1 = 0$$

$$x = \pm 1$$

$$x^r - 10x + 1 = 0$$

$$(x-1)(x+1)$$

$$x^r = (10a+1)x + b \dots$$

$$x^r = 1 \cdot x + b \dots$$

$$x_1 = x_1 = 1 \quad \sqrt{1 \dots - 10b - 1} \quad 1 \dots - 10b = 1$$

$$10b = 74 \quad b = 7.4$$

$$x^r = 1 \cdot x + 7.4$$

$$\frac{(1 \times 10) - (10 \times 1)}{1} = 0$$

$$y = -ax^r + ax + 1 \quad y = 10bx^r - bx - 1$$

5/1

$$\text{ext} \left| \begin{array}{l} -a \\ -10a \end{array} \right| \begin{array}{l} 1 \\ 1 \end{array}$$

$$-a + 10a + \frac{1}{10} = \frac{1+a}{10}$$

$$\frac{10}{10} - \frac{10}{10} - 1 = \frac{1+a}{10}$$

$$1+a = -1$$

$$a = -1$$

$$\frac{-a}{10} + \frac{10a}{10} + \frac{10}{10} = \frac{10a+10}{10}$$

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

$$\text{ext} \left| \begin{array}{l} b \\ 10b \end{array} \right| \begin{array}{l} 1 \\ 1 \end{array}$$

$$\frac{b}{10} + \frac{10b}{10} - \frac{1}{10} = \frac{-b-1}{10}$$

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

$$\frac{1}{10} = \frac{-(b+1)}{10} \quad b = -1$$

$$b - a = -1 + 1 = 0$$

$$y = 10ax^r + 10x + 1$$

$a = \frac{1}{10} \Rightarrow 10 = -1$ 5/1
 $10ax + 10$

$$10a = \frac{1}{10}$$

$$10b = 10$$

$$10a^r = 1 \quad a = \frac{1}{10}$$

$$\text{ext} \left| \begin{array}{l} -b \\ 10b \end{array} \right| \begin{array}{l} 1 \\ 0 \end{array}$$

$$\frac{10a - 1}{10} = \frac{10b - 1}{10}$$

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$$x^r - (a^r + b^r - 1) x + a + b - 1 = 0$$

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$$a + b = -\frac{1}{a} = \frac{a^r + b^r - 1}{a} \quad a + b = a^r + b^r - 1$$

$$ab = a + b - 1 \Rightarrow a + b = ab + 1 \rightarrow ab + 1 = a^r + b^r - 1$$

$$(a + b)^r - r ab = 1^r + ab$$

$$(a + b)^r - \frac{r ab}{(a + b - 1)} = 1^r$$

$$(a + b)^r - 1^r (a + b) - 1 = 0$$

$$(a + b - 0)(a + b + 1) = 0$$

$$a + b = 0 \quad \text{or} \quad a + b = -1$$

$a, b \in \mathbb{C}$
 \downarrow

$$a + b = 0$$