

۲. ستر بابری

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$$\gamma + \alpha + \xi = 11$$

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$$\begin{array}{c} 2 \quad 1 \\ \hline - \quad + \quad - \end{array}$$



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$$\begin{aligned} z-1 &= 0 \rightarrow z=1 \\ z-3 &= 0 \rightarrow z=3 \\ z-5 &= 0 \rightarrow z=5 \end{aligned}$$

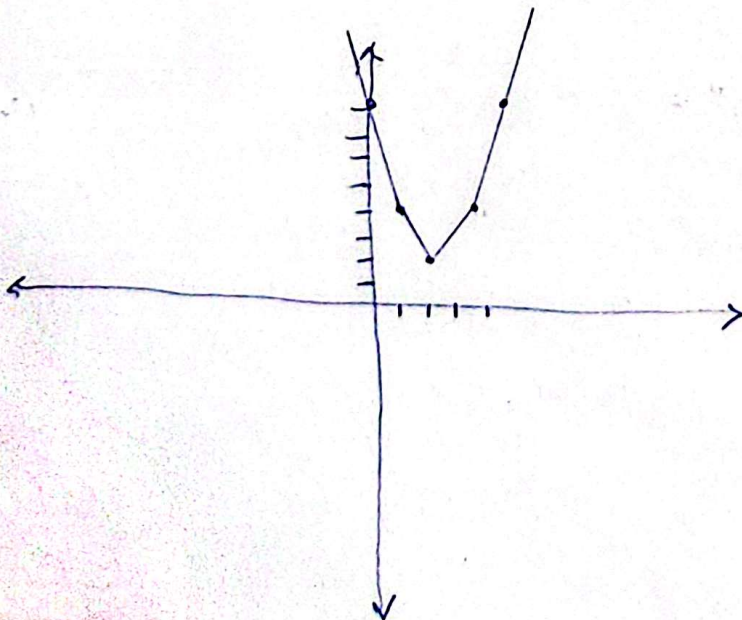
$$Z - \mu = 0 \rightarrow Z = \mu$$

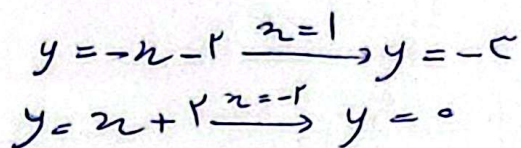
$$|z - \xi| = 0 \rightarrow z = \xi$$

$$y = \{n-1 \xrightarrow{z=\xi}, y=1$$

$$y = -\xi_{x+1} \xrightarrow{x=0} y = 1$$

$$\min y = 2$$





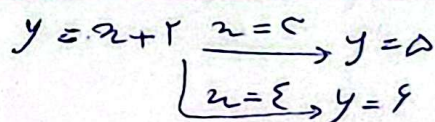
$$R_y = (-\infty, 1]$$

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$$\rightarrow 99 - 100 + 19m \leq 0 \rightarrow 19m \leq 99 \rightarrow m \leq 5$$

۱. نہیں گزرنے، بے حس، بے ارادہ = عدد طبعیہ { ۱، ۲، ۳ }
دائمنہ محض ^{نہ} نہ



$$g = (x^r - rx + r) = (x-1)^r + 1 \rightarrow S \Big|_1^1$$

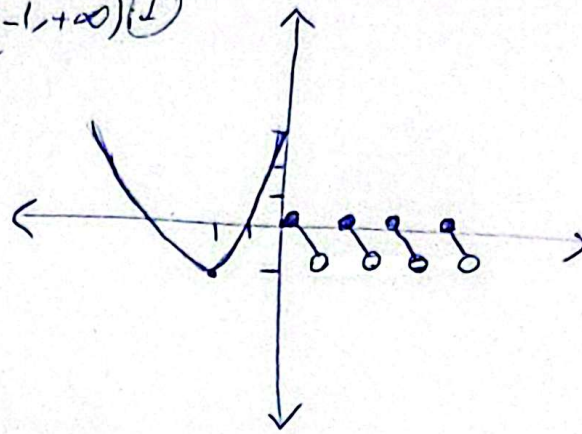
$z = -1$, $y = 3$

$$R_f = [1, +\infty)$$

$$x^2 + 2x + 1 \rightarrow 5 \begin{vmatrix} -1 \\ -1 \end{vmatrix} \rightarrow R = [-1, +\infty) \textcircled{I}$$

$$[12] - 12 \rightarrow R = (-1, 0] \textcircled{II}$$

$$R_f = \textcircled{I} \cup \textcircled{II} = [-1, +\infty)$$



$$x^2 + c > 0 \rightarrow x > \frac{-c}{2} \rightarrow b = \frac{-c}{2}$$

$$y_{\max} \rightarrow \sqrt{x^2 + c} \min \rightarrow \sqrt{x^2 + c} = 0 \rightarrow x = \frac{-c}{2}, y = a$$

$$y = a + 1 - 0 \xrightarrow{y=a} a = 1 + 1 \rightarrow a = 2$$

$$a \times b = \frac{-c}{2} \times 2 = -6$$

$$f(x) = 2\sqrt{x+1} + 2\sqrt{1-x}$$

$$\left. \begin{array}{l} x+1 > 0 \rightarrow x > -1 \\ 1-x > 0 \rightarrow x < 1 \end{array} \right\} x = [-1, 1]$$

$$f(1) = 2\sqrt{2}$$

$$f(1) + g(1) = 2\sqrt{2+2\sqrt{1-(1)^2}} = 4\sqrt{2}$$

$$2\sqrt{2} + g(1) = 4\sqrt{2} \rightarrow g(1) = \sqrt{2}$$

$$f(-1) = 2\sqrt{2}$$

$$f(-1) + g(-1) = 2\sqrt{2+2\sqrt{1-(-1)^2}} = 4\sqrt{2}$$

$$2\sqrt{2} + g(-1) = 4\sqrt{2} \rightarrow g(-1) = -\sqrt{2}$$

$$y = \frac{f(x)}{2} - \frac{g(x)}{2} \xrightarrow{x=1} y = \frac{2\sqrt{2}}{2} - \frac{\sqrt{2}}{2} = 0$$

$$\xrightarrow{x=-1} y = \frac{2\sqrt{2}}{2} - \frac{-\sqrt{2}}{2} = \sqrt{2}$$

$$R_y = [0, \sqrt{2}]$$