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$$-1 \leq x \leq 1$$

$$-1 \leq x \leq 1 \} \rightarrow \{-1, 0, 1\}$$

$$\text{fct. } \left. \begin{aligned} (ry - rf)(1) &= r \\ (ry - rf)(0) &= \omega \\ (ry - rf)(-1) &= r \end{aligned} \right\} \Rightarrow r + \omega + r = 11$$

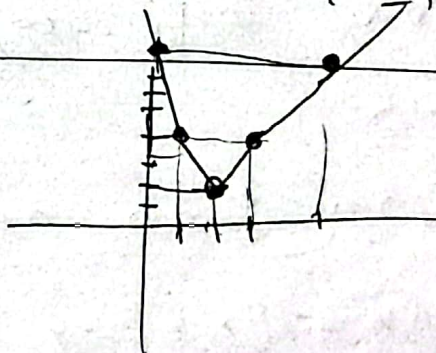
$$-1 = \omega \Rightarrow R = [\omega, \infty)$$

$$1 + r = r \Rightarrow Rg = (-\infty, r] \} \Rightarrow (-\infty, r] \cup [\omega, \infty)$$

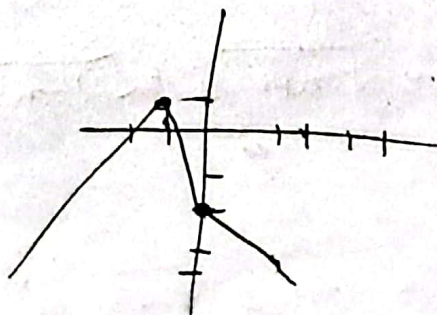
$$-m^2 + (2m + r) = 0 \Rightarrow \frac{-1 \pm \sqrt{1 - 4(-1)(r)}}{2(-1)} = \frac{1 \pm \sqrt{1 - 4r}}{-2}$$

$$\Rightarrow \sqrt{r-1} = \sqrt{r} = r$$

$$\begin{aligned} f &\rightarrow 1 & r &\rightarrow r & g &\rightarrow 1 \\ r &\rightarrow r & 1 &\rightarrow r \\ r &\rightarrow r & 1 &\rightarrow r \end{aligned}$$



$$\begin{array}{c|c|c} -1 & 0 & \\ \hline x+r & -r-x-r & -x-r \end{array}$$



$$R = (-\infty, 1) \cup \omega$$

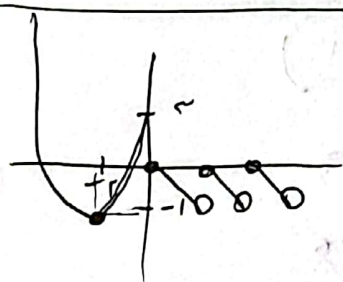
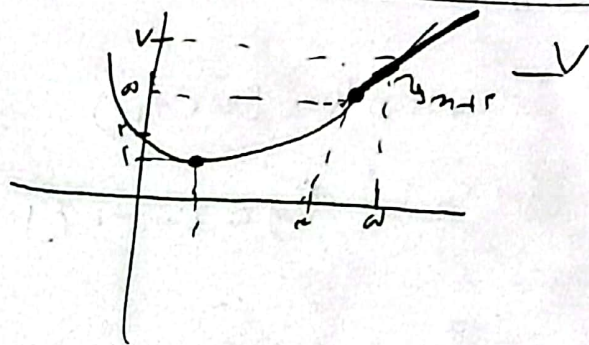
$$ny + y = n^r + \omega n + m \Rightarrow n^r + (\omega - y)n + (m - y) = 0$$

$$D \leq 0 \Rightarrow -y^r - \omega y: y^r \rightarrow y + (\omega - \epsilon m) \leq 0$$

$$\Rightarrow 1 \leq m - 4 \epsilon \leq 9 \Rightarrow m \leq 9 \Rightarrow 1 \leq \epsilon \leq 2 \rightarrow \text{GF}$$

$$f(n) = \begin{cases} n+r & n \geq r \\ n^r - rn + r & (n \leq r) \\ |n| + r & n < 0 \end{cases}$$

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



$$\Rightarrow [-1, +\infty)$$

$$rn + r = 0 \Rightarrow n = -\frac{r}{r} = -1 \quad a+1 = a \Rightarrow a = \infty$$

$$\Rightarrow ab = -\frac{r}{r} \times r = -r$$

$$\frac{f(n)}{r} - \frac{g(n)}{r} = \frac{r\sqrt{n+1} + r\sqrt{1-n}}{r} = \frac{r\sqrt{n+1} + r\sqrt{1-n} - r\sqrt{n+1} - r\sqrt{1-n}}{r}$$

$$\Rightarrow \sqrt{n+1} + r\sqrt{1-n} = \sqrt{n+1} + r\sqrt{1-n} - \sqrt{1-n} - \sqrt{1-n}$$

$$\Rightarrow \sqrt{1-n} \rightarrow D_f = [-1, 1]$$

$$\rightarrow R = [0, \sqrt{r}]$$