

$$D_f = [1, 1] \quad D_g = \{-1, 0, 1, 2\} \quad g - f = \{(-1, 2), (0, 5), (1, 4)\}$$

$$R_{g-f} = \{2, 5, 4\}$$

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$$R_f = [\omega, +\infty), \quad R_g = (-\infty, 4] \quad R_f \cup R_g = (-\infty, 4] \cup [\omega, +\infty)$$

$f(m)$   $g(m)$

$$f(x) - 1 = \omega \quad \frac{1}{x}(x) + 3 = 4$$

$x > 0$   $x > 0$

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$$-\frac{x^2}{2} + x + 2 > \frac{x}{2} \Rightarrow -x^2 + 2x + 4 > \frac{x}{2} \Rightarrow 0 > x^2 - 2x - 3$$

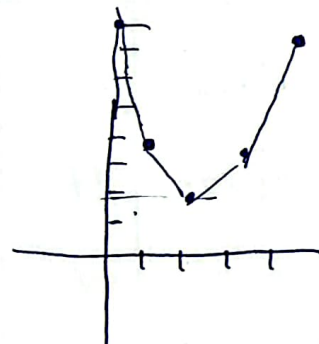
$$\Rightarrow \frac{-1}{+} \frac{-3}{+} \Rightarrow (-1, 3) \quad a = -1 \quad b = 3 \quad \sqrt{\frac{b^2 - 4ac}{4}} = 2$$

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یکه در ۲ و ۳ و ۱ یکم  $\Rightarrow$  (شماره)

$$\begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix} \begin{bmatrix} 4 \\ 5 \\ 6 \end{bmatrix} \begin{bmatrix} 7 \\ 8 \\ 9 \end{bmatrix} \begin{bmatrix} 10 \\ 11 \\ 12 \end{bmatrix}$$

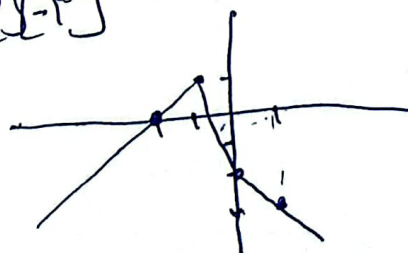
کمر  $\Rightarrow 2$



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(شماره)  $\Rightarrow$   $0, -1 \Rightarrow$   $\begin{bmatrix} -2 \\ 0 \end{bmatrix}, \begin{bmatrix} -1 \\ 0 \end{bmatrix}, \begin{bmatrix} 0 \\ -2 \end{bmatrix}, \begin{bmatrix} 1 \\ -2 \end{bmatrix}$

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



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$$y n + y = n^p + \omega n + m \Rightarrow n^p + (\omega - y) n + (m - y)$$

$$\Delta \geq 0 \quad (\omega - y)^p - 4(m - y) \geq 0 \Rightarrow 4\omega + y^p - 4\omega y - 4m + 4y \geq 0$$

$$\Rightarrow y^p - 4y + (4\omega - 4m) \geq 0 \Rightarrow \Delta < 0 \Rightarrow 4y - 4(\omega - 4m) < 0 \\ -4\omega + 4m < 0 \quad m < \omega \quad \text{المجال: } \{1, 2, 3\} \quad \text{و } \omega \leq 3$$

$$1^o \Rightarrow n \geq 3 \quad n + 1 \Rightarrow [3, +\infty)$$

$$2^o \Rightarrow 0 \leq m < 3 \quad n^p - 4m + 4 \frac{\omega^p}{p} \geq 0 \Rightarrow R = [1, \omega)$$

$$3^o \Rightarrow |n| + 1 \quad n < 0 \Rightarrow R = [3, +\infty)$$

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

$$n^p + 4m + 4 \frac{\omega^p}{p} \leq -1 \quad n \leq 0 \Rightarrow R = [-1, +\infty)$$

$$n > 0, -1 < [4m] - 4m \leq 0 \quad R = [1, 0] \quad \text{المجال}$$

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

$$1^o \Rightarrow 4m + 3 \geq 0 \quad 4m \geq -3 \quad n \geq -\frac{3}{4} = b$$

$$2^o \Rightarrow \text{المجال} \Rightarrow a + 1 = a \quad a = 4$$

$$ab = -\frac{3}{4} \times 4 = -3$$

$$D_f \Rightarrow n \geq -1 \quad n \leq 1 \Rightarrow D_f = D_g = [-1, 1]$$

$$(\sqrt{n+1} + \sqrt{1-n})^p = 2 + 2\sqrt{1-n^p} \quad f(n) + g(n) = 2 \left( \frac{\sqrt{n+1} + \sqrt{1-n}}{2} \right)^p$$

$$\frac{f(n)}{2} - \frac{g(n)}{2} = \sqrt{n+1} + \sqrt{1-n} - \sqrt{n+1} - \sqrt{1-n} = \sqrt{1-n}$$

$$\sqrt{1-n} \Rightarrow R = [0, 1]$$

$$\sqrt{2 + 2\sqrt{1-n^p}} = \sqrt{n+1} + \sqrt{1-n}$$

المجال