

$$Y_g = \{(-1, 2)(0, 1)(1, 0)(2, -1)\} \rightarrow R_H = \{Y_g, \omega, K\}$$

$$f_2 = \{(-1, 0), (0, 1), (1, \sqrt{3}), (1, 0)\}$$

$$R_h = \{ \psi + \omega = 11 \} \Rightarrow \text{مجموع درجات} = 11$$

$$f(x) = \frac{1}{x} \quad D_f = (0, +\infty) \quad g(x) = \frac{1}{x} \quad D_g = (-\infty, 0)$$

$$R_F \cup R_g \Rightarrow R_F = (\omega_g + \omega) \quad , \quad R_g = (-\omega_g \epsilon)$$

از جایگذاری استفاده می‌کنیم $\Rightarrow (-\infty, 0) \cup (0, +\infty)$

$$y = \frac{-x'}{x} + x + y$$

⑦ $\Rightarrow \sqrt{b-a} \geq \text{بِسْتَرَيْنِ مَقْدَار}$

$$\frac{-2x^2}{x^2} + x + 1 > \frac{1}{x} \rightarrow -2x^2 + x + 1 > \frac{1}{x} \rightarrow 2x^2 - x - 1 < 0$$

$$(x-1)(x+1) < 0$$

$$\begin{array}{c} -1 \qquad 1 \\ + \quad | \quad - \quad | \quad + \end{array}$$

$$y = |x-1| + |x-4| + |2x-5|$$

$$\left\{ \begin{array}{l} 1 - x + \overbrace{1 - 5x}^{\text{---}} - 2x \quad x < 1 \\ x - 1 + \overbrace{1 - 2x + 5 - 2x}^{\text{---}} - 2x \quad 1 \leq x < 2 \\ x - 1 + \overbrace{1 - 2x + 4x - 5}^{\text{---}} - 2x \quad 2 \leq x < 3 \\ x - 1 + \overbrace{2x - 3 + 2x - 5}^{\text{---}} - 2x \quad x \geq 3 \end{array} \right.$$

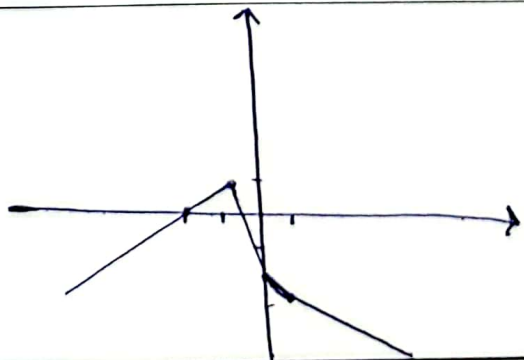
$$1, \bar{m} \rightarrow x=1 \Rightarrow y=r$$

$$\searrow x=y \Rightarrow y=x$$

$$\downarrow x = \mu \Rightarrow \downarrow \kappa$$

$$y = |x| - 1 \quad |x+1|$$

$$\begin{cases} x+1 & x < -1 \\ -x-1 & -1 < x < 0 \\ -x-1 & x > 0 \end{cases} \quad R_{yz}(-\infty, 1]$$



$$y = \frac{x^2 + \omega x + m}{x+1}$$

* برای هر مقدار طبیعی و غیر صفری R توان R با $\frac{1}{R}$ و $\frac{1}{R}$ خواهر بود

$$x \neq -1 \Rightarrow \left(\frac{1}{x+1}\right)^{-\omega} + (x+1)^{\omega} + m = 0$$

$$m = -\epsilon$$

$$\text{فرض} \Rightarrow x^2 + \omega x + \epsilon \Rightarrow \frac{(x+1)(x+\epsilon)}{x+1} \Rightarrow y = x + \epsilon \Rightarrow (\text{بر } x \neq -1)$$

$$R_y = R - \{-1\}$$

$$f(x) = \begin{cases} x+1 & x \geq 3 \\ x^2 - 2x + 2 & 0 \leq x < 3 \\ 1+2x & x < 0 \end{cases}$$

$$R_f = [\omega + \infty) \cup [1, \omega) \cup (2, \omega + \infty) \Rightarrow [1, \omega + \infty)$$

$$\left. \begin{array}{l} 1) x \geq 3 \Rightarrow x+1 \Rightarrow y = [\omega + \infty) \\ 2) (x-1)^2 + 1 \Rightarrow 0 \leq x < 3 \Rightarrow y \in [1, \omega) \\ 3) |x|+2 \Rightarrow x < 0 \Rightarrow y \in (2, \omega + \infty) \end{array} \right\} \text{جایگذاری نقاط}$$

$$f(x) = \begin{cases} x^2 + \epsilon x + 2 & x \leq 0 \\ [2x] - 2x & x > 0 \end{cases} \quad [2x] - 2x \Rightarrow 2([2x] - x) \\ R_y = [-1, 0)$$

$$x = \frac{-b}{2a} = -1 \Rightarrow \min \quad \cup \quad R_f = [-1, \omega + \infty) \\ y = (-1)^2 + (-1)\epsilon + 2 = -1 \Rightarrow R_y = [-1, \omega + \infty)$$

$$y = a+1 - \sqrt{2x+3} \quad D_f = [b, \omega + \infty) \quad R_y = (\omega, \omega + \infty] \quad a, b \in \mathbb{Z}$$

$$2x+3 \geq 0 \Rightarrow 2x \geq -3 \Rightarrow x \geq -\frac{3}{2} \Rightarrow y_{\min} \Rightarrow a+1 - \sqrt{2(-\frac{3}{2})+3} = a+1$$

$$a+1 = \omega \Rightarrow a = \epsilon$$

$$(b = -\frac{3}{2}) \quad a, b \in \mathbb{Z} \Rightarrow \epsilon - \frac{3}{2} = -9$$

$$f(x) = 2\sqrt{x+1} + \epsilon\sqrt{1-x} \quad f(x) + g(x) = 3\sqrt{2+2\sqrt{1-x^2}} \quad D_f = D_g$$

$$R_y \Rightarrow \frac{f(x)}{2} - \frac{g(x)}{3}$$

همه اعداد حقیقی مثبت

$$g = (f+g) - f \Rightarrow y = \frac{f}{2} - \frac{g}{3} = \frac{f}{2} - \frac{(f+g)-f}{3} = \frac{f}{2} - \frac{f+g}{3} + \frac{f}{3}$$

$$\Rightarrow \frac{f}{2} - \frac{f+g}{3} \Rightarrow y = \frac{1}{2}(2\sqrt{x+1} + \epsilon\sqrt{1-x}) - \frac{1}{3}(3\sqrt{2+2\sqrt{1-x^2}}) \Rightarrow \sqrt{x+1} + \epsilon\sqrt{1-x} - \sqrt{2+2\sqrt{1-x^2}} \\ x \in [-1, 1] \Rightarrow R_y = [0, \sqrt{2}]$$