

۱۷، ۱۵

نام و نام خانوادگی: پاسخنامه تشریحی تکلیف شماره ... کلاس: B

$$\left. \begin{array}{l} D_f = [-1, 1] \\ D_g = \{-1, 0, 1, 2\} \end{array} \right\} \Rightarrow \{-1, 0, 1\}$$

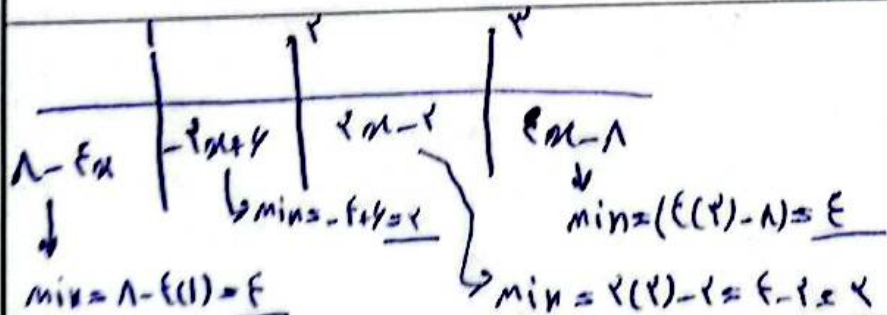
$$\left\{ \underbrace{(-1, 2)}_{f=0 \leq x}, \underbrace{(0, 0)}_{1-x=0}, \underbrace{(1, 4)}_{x=2} \right\} \Rightarrow R = \{2, 0, 4\} \checkmark \text{ [II]}$$

$$\left. \begin{array}{l} R_f = [x(x)-1, +\infty) = [\omega, +\infty) \\ R_g = (-\infty, \frac{1}{x}(x)+2] = (-\infty, 4] \end{array} \right\} \Rightarrow \mathbb{R} - (4, \omega) \checkmark$$

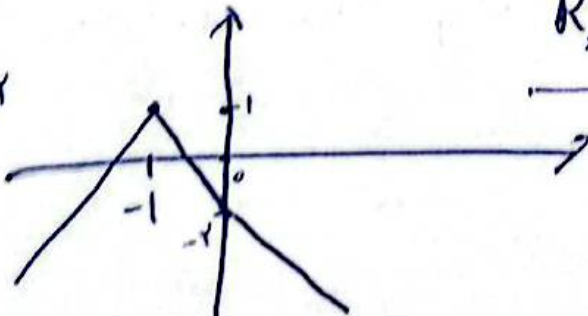
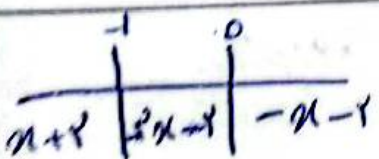


$$y = \frac{x}{x} \Rightarrow -\frac{x^2}{x} + x + 2 = \frac{x}{x}$$

$$-x^2 + 2x + 2 = 0 \Rightarrow (a, b) = (-1, 2) \quad x - (-1) \leq \sqrt{5} \Rightarrow \underline{x = 2} \checkmark$$



$$\underline{\min = 2} \checkmark$$



$$\underline{R_f = (-\infty, 1]} \checkmark$$

$$y(x+y) = x^2 + \omega x + m$$

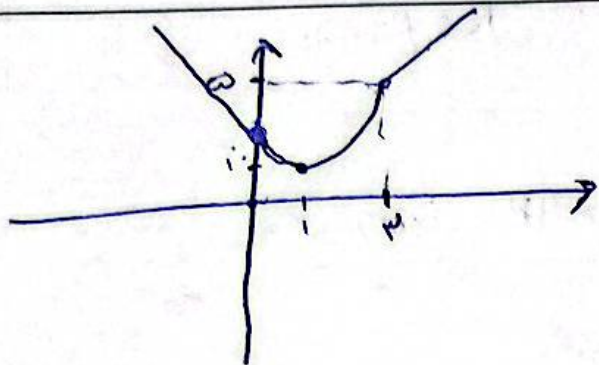
$$x^2 + (\omega - y)x + m - y \rightarrow \Delta = y^2 - 4\omega y - 4m + 4y$$

$$\frac{\Delta}{4} > 0 \Rightarrow R_f = \mathbb{R}$$

$$y^2 - 4y + 4\omega - 4m > 0$$

$$\Delta < 0 \Rightarrow 4 < 4\omega - 4m \Rightarrow \omega < 1 - m$$

$$m < 1 \Rightarrow 1, 2, 3 \checkmark$$



$$x^2 - 2x + 2 \geq \frac{y}{2} = 1$$

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

$$[x] - 2x$$

$$x = A \rightarrow [A] - A \rightarrow [-1, 0] \text{ (محدود)}$$

$$x^2 + 6x + 2 \xrightarrow{x \leq 0} [-1, +\infty)$$



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

$$P_f \rightarrow x^2 + 2 \geq 0 \rightarrow x \geq -\frac{2}{x} \Rightarrow b = -\frac{2}{x}$$

$$\max f \rightarrow \omega \rightarrow \text{مقدار } \omega \text{ را در } \frac{1}{2} \Rightarrow \omega \leq a+1 \quad a=f$$

$$ab = 6x - \frac{2}{x} = -4 \checkmark$$

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

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

$$\sqrt{x+1} + 2\sqrt{1-x}$$

پاسخ نه ...