

نام و نام خانوادگی ..... نام دانش آموز ..... پاسخنامه تشریحی تکلیف شماره ۸۰۰ کلاس ... دانش آموز ...

$g = \{(-1, 2), (0, 8), (2, 0), (1, 4)\}$   $\begin{cases} \sqrt{1-x^2} \Rightarrow 1-x^2 \geq 0 \\ x^2 \leq 1 \Rightarrow -1 \leq x \leq 1 \end{cases}$

$(1-x^2) \Rightarrow \mathbb{R}f = (-\infty, 1] \Rightarrow \sqrt{1-x^2} \Rightarrow \mathbb{R}f = [0, 1]$

$f = \{(-1, 0), (0, 1), (1, 0)\} \Rightarrow \mathbb{R}f = \{(-1, 0), (0, 1), (1, 0)\}$

$g - \mathbb{R}f = \{(-1, 2), (0, 8), (1, 4)\}$  مجموع =  $2 + 8 + 4 = 14$

$f(x)$   $\mathbb{R}f = [0, +\infty)$   $\mathbb{R}g = (-\infty, 4]$

$\mathbb{R}f \cup \mathbb{R}g = (-\infty, 4] \cup [0, +\infty)$

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

$x^2 - 4x - 3 < 0 \Rightarrow (x+1)(x-5) < 0 \Rightarrow (-1, 5)$

$\sqrt{b-a} = \sqrt{4+1} = \sqrt{5} = 2$

$x=1 \quad y=4$   
 $x=3 \quad y=4$   
 $x=2 \quad y=2$

مقدار  $\sqrt{5}$

$x < -1$

$\begin{cases} x > 0 & x - 2x - 2 = -x - 2 \\ -1 \leq x \leq 0 & -x - 2x - 2 = -3x - 2 \\ x < -1 & -x + 2x + 2 = x + 2 \end{cases}$

$\mathbb{R}f = (-\infty, 1]$

$$g(x+y) = x^2 + dx + m \Rightarrow x^2 + (d-y)x + (m-y) = 0 \xrightarrow{\Delta \geq 0}$$

$$(d-y)^2 - 4(m-y) \geq 0 \Rightarrow 4d + y^2 - 4y - 4m + 4y \geq 0 \Rightarrow$$

$$y^2 - 4y + (4d - 4m) \geq 0 \Rightarrow 4y - 400 + 16m \leq 0 \Rightarrow \boxed{m \leq 25}$$

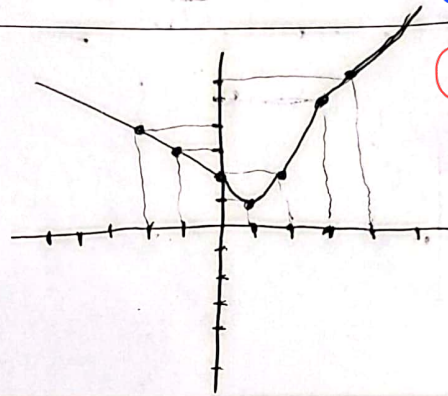
$$m \Rightarrow \{1, 2, 3\} \Rightarrow \text{اعداد صحیح}$$

$$m=25 \rightarrow \frac{a+24+25}{a+1} = a+25, \frac{a+1}{a+1}$$

مردمان  $\mathbb{R}$  نرشد

$$f(x) = \begin{cases} x+2 & x \geq 2 \\ x^2-4x+2 & 0 \leq x < 2 \\ |x|+2 & x < 0 \end{cases}$$

$$\text{IR} f = [1, +\infty)$$

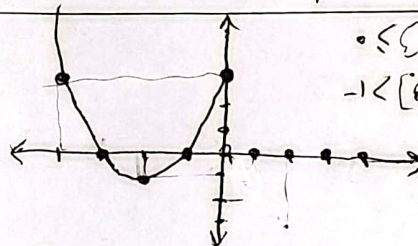


$$f(x) = \begin{cases} x^2 + 4x + 2 & x \leq 0 \quad (1) \\ [2x] - 2x & x > 0 \quad (2) \end{cases}$$

$$\text{IR} f(1) = [-1, +\infty)$$

$$\text{IR} f(2) = \{0\}$$

$$\text{IR} f = [-1, +\infty)$$



$$0 \leq [0] - [0] < 1$$

$$-1 < [0] - 0 \leq 0$$

$$y = a + 1 - \sqrt{x+2} \quad D = [b, +\infty) \quad \text{IR} = (-\infty, a] \quad \boxed{a=2}$$

$$x+2 \geq 0 \rightarrow x \geq -2 \rightarrow x \geq -1, a \quad \boxed{b=-1, a}$$

$$ab = -2$$

دائری  $x = -1, a$  را بیاید

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

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

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

$$-\sqrt{x+2\sqrt{1-x^2}} \Rightarrow -1 \leq x \leq 1 \quad \text{IR} = [0, \sqrt{2}]$$