

$$f(x) = \{(-190)(091)(190)\}$$

$$29 - 3f = \{(-192)(095)(194)\} \rightarrow 2 + 3 + 4 = \boxed{11}$$

۱

$$f(x) = 2x - 1$$

$$g(x) = \frac{1}{3}x + 3$$

$$D = [3, +\infty)$$

$$D = (-\infty, 3]$$

$$R = [0, +\infty)$$

$$R = (-\infty, 4]$$

$$= \boxed{\mathbb{R} - (4, 5)}$$

۲

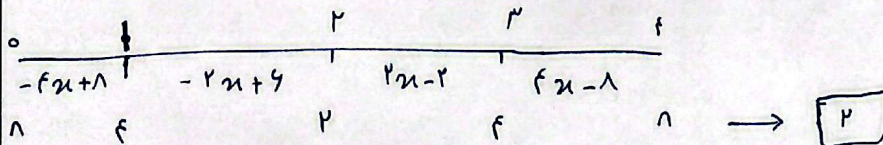
$$\frac{-x^2}{2} + x + 3 > \frac{3}{2} \rightarrow \frac{-x^2}{2} + x + \frac{3}{2} > 0 \rightarrow -(x-3)(x+1) > 0$$

$$\frac{-1}{-} \quad \frac{3}{+} \quad \frac{-}{-} \rightarrow (-1, 3) = (a, b)$$

$$\sqrt{b-a} = \sqrt{4} = \boxed{2}$$

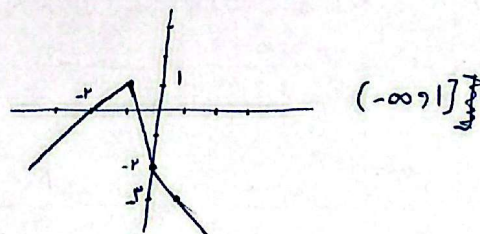
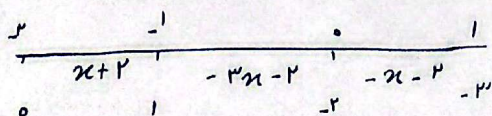
۳

$$|x-1| + |x-3| + |2x-4|$$



۴

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



۵

$$\frac{x^r + \Delta x + \dots}{x+1} \rightarrow \frac{(x+f)(x+1)}{(x+1)} \rightarrow 17 = 8$$

f

$$\left. \begin{array}{l} x \geq r \rightarrow x+r \rightarrow [0, +\infty) \\ 0 \leq x < r \rightarrow x^r - rx + r \rightarrow [1, +\infty) \\ x < 0 \rightarrow |x| + r \rightarrow (r, +\infty) \end{array} \right\} [1, +\infty)$$

y

$$\left. \begin{array}{l} x^r + rx + r \rightarrow x < 0 \rightarrow [-1, +\infty) \\ [rx] - rx \rightarrow x > 0 \rightarrow (-1, 0] \end{array} \right\} [-1, +\infty)$$

A

$$a + 1 - \sqrt{rx+r} \rightarrow D: [b, +\infty) \\ R: (-\infty, \infty)$$

$$rx+r \geq 0$$

$$x \geq -\frac{r}{r} \rightarrow \text{if } x = -\frac{r}{r} \rightarrow a + 1 - \sqrt{0} = 0 \rightarrow a = f$$

$$ab = -\frac{r}{r} \times f = [-9]$$

q

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

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

$$\frac{f(x) - rg(x)}{q} = \frac{r\sqrt{x+1} + f\sqrt{1-x} - r\sqrt{x+1} + r\sqrt{1-x}}{q} = \sqrt{1-x}$$

