

$$D_f = [-1, 1]$$

$$x=1 \rightarrow \sqrt{1-1} = 0$$

$$x=-1 \rightarrow \sqrt{1-1} = 0$$

$$x=0 \rightarrow \sqrt{1-0} = 1$$

$$\{(1,0), (-1,0), (0,1)\} = f(x)$$

$$2x_1 - 3x_0 = 2$$

$$2x_2 - 3x_1 = 1$$

$$2x_3 - 3x_2 = 2$$

$$11 = 2 + 2 + 2$$

$$2x-1 \quad [3, +\infty)$$

$$2x-1 = 1$$

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

$$\frac{1}{2}x+3 \quad (-\infty, 3]$$

$$\frac{1}{2}x+3 = 2$$

$$R_f = (-\infty, 2]$$

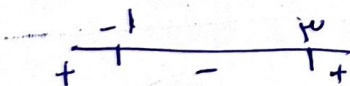
$$f \cup g = (-\infty, 2] \cup [1, +\infty)$$

$$\left(\frac{-x^2}{2} + x + 3 > \frac{3}{2}\right) \times 2$$

$$-x^2 + 2x + 6 > 3$$

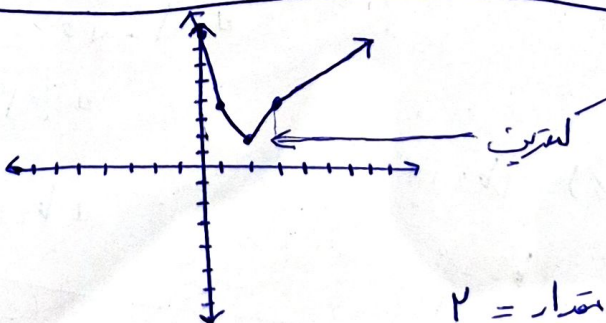
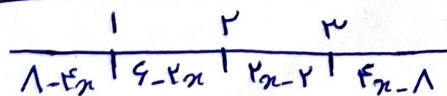
$$x^2 - 2x - 3 < 0$$

$$(x-3)(x+1) < 0$$

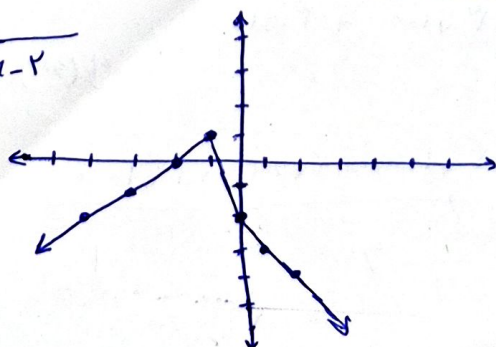
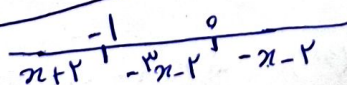


$$(a, b) = (-1, 3)$$

$$\sqrt{3-(-1)} = 2$$



$$2 = \text{تسریع مقدار}$$



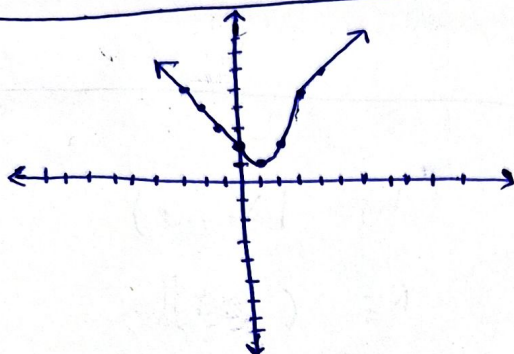
$$R_f = (-\infty, 1]$$

$$D_f = \mathbb{R} - \{-1\}$$

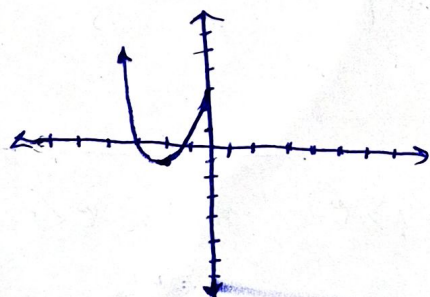
$$x^2 + \omega x + m = 0 \quad \text{بما ان } x = -1$$

$$1 - \omega + m = 0$$

$$m = \omega - 1$$



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



$$R_f [x_n] - x_n = (-1, 0]$$

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

إشارة
المشتق

$$x^2 + \omega \geq 0$$

$$x \geq -\frac{\omega}{2}$$

$$x \geq -\frac{\omega}{2}$$

$$a + 1 - \sqrt{0} = a$$

$$a = \frac{\omega}{2}$$

$$[-\frac{\omega}{2}, +\infty) = [b, +\infty)$$

$$b = -\frac{\omega}{2}$$

$$ab = -\frac{\omega}{2} \times \frac{\omega}{2} = -\frac{\omega^2}{4}$$

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

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

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

$$D_f = [-1, 1]$$

$$\sqrt{1+1} = \sqrt{2}$$

$$\sqrt{1-1} = 0$$

$$R_f = [0, \sqrt{2}]$$