

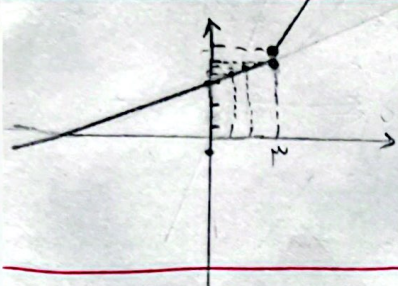
۱۹، ۲۵

د کړنځی وځنډه (د کړنځی وځنډه)

$$R_g - R_f = \{(-1, 2), (0, 5), (1, 4)\} \rightarrow 2 + 5 + 4 = 11 \checkmark$$

د حل کول!

(۲) - ۱



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

$$R_f = [5, +\infty)$$

$$U \rightarrow \mathbb{R} - (4, 5) \checkmark$$

(۲) - ۲

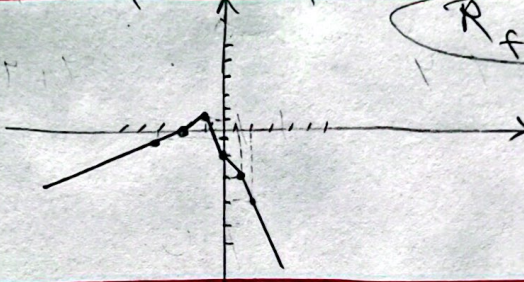
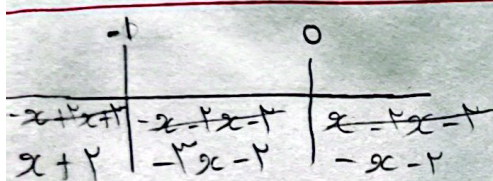
$$y = (-\frac{1}{p})x^2 + x + 3 \rightarrow -\frac{1}{p}x^2 + x + 3 - \frac{m}{p} > 0 \rightarrow x^2 - 2x - 3 < 0$$

$$(a, b) = (-1, 3) \leftarrow -1 < x < 3 \leftarrow \begin{array}{c} | \quad | \quad | \\ + \quad - \quad + \end{array} \quad \leftarrow (x-3)(x+1)$$

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

$$\begin{array}{c|c|c|c|c|c} 0 & 1 & 2 & 3 & 4 & \\ \hline 1 & 2 & 3 & 4 & 5 & \end{array} \rightarrow \text{کترین خنډ عبارت عدد ۲ ته}$$

(۲) - ۳



$$R_f = (-\infty, 5] \checkmark$$

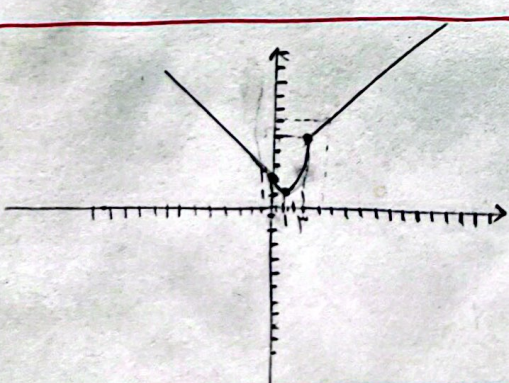
(۲) - ۴

$$y_0c + y = 9c^2 + 2x + m \rightarrow x^2 + x(2-y) + (m-y) = 0$$

$$\Delta < 0 \rightarrow 2a + y^2 - 10y - 4m + 4y < 0$$

$$y^2(9y) + (20y - 4m) < 0 \rightarrow 36 - 100 + 14m = 14m - 64$$

$$14m - 64 < 0 \rightarrow m < 4 \rightarrow m = \{1, 2, 3\} \checkmark$$

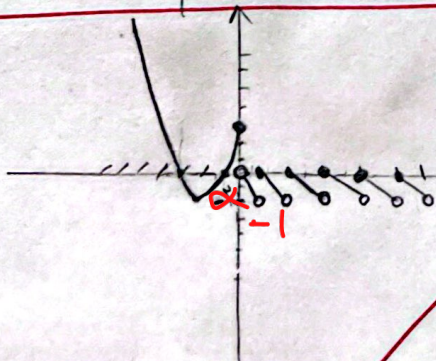


$$R_f = [1, +\infty) \checkmark$$

(۲) - ۵

$$R_f = (-\infty, +\infty) \checkmark$$

(۱, ۵) - ۶



$$y = a + 1 - \sqrt{2x + 3} \rightarrow b = -\frac{3}{2} \checkmark$$

$$x = -\frac{3}{2} \rightarrow a + 1 = 5 \rightarrow a = 4 \checkmark$$

$$ab = 4 \times -\frac{3}{2} = -6 \checkmark$$

(۲) - ۷

$$D_f \rightarrow -1 \leq x \leq 1 = D_g$$

(1, 1.5) -10

$$f(x) + g(x) = \sqrt[3]{(\sqrt{x-1} + \sqrt{x+1})^3} = \sqrt[3]{\sqrt{x-1} + \sqrt{x+1}} = \sqrt[3]{\sqrt{x-1}} + \sqrt[3]{\sqrt{x+1}}$$

$$\sqrt[3]{\sqrt{x+1}} + \sqrt[3]{\sqrt{x-1}} - \sqrt[3]{\sqrt{x+1}} - \sqrt[3]{\sqrt{x-1}} = \sqrt{x+1} - \sqrt{1-x}$$

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

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

باید تو بازه

$$[0, 1.5]$$

$$[-1, 1]$$