

(۱,۷۵)

$$g = \{(-1, 0), (0, 4), (2, 0)\}$$

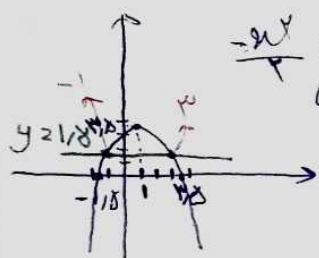
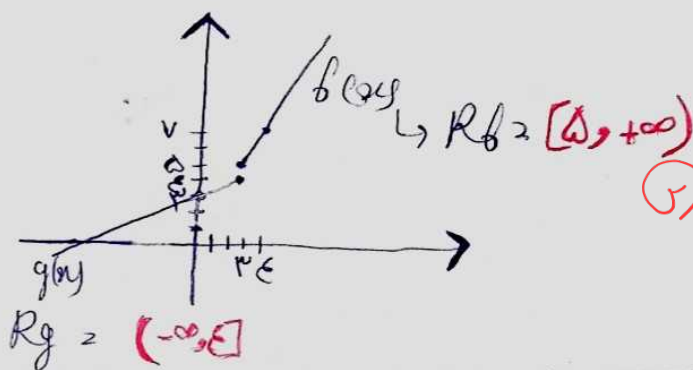
$$f(x) = \sqrt{1-x^2} \rightarrow D_f = [-1, 1]$$

$$2g - 3f \rightarrow \begin{cases} x=1 \rightarrow 4-3=1 \\ x=0 \rightarrow 0-0=0 \\ x=2 \rightarrow 0-3=-3 \end{cases}$$

$$f(x) = 2x-1 \rightarrow D_f = [3, +\infty)$$

$$g(x) = \frac{1}{2}x+3 \rightarrow D_g = (-\infty, 3]$$

$$R_f \cup R_g \rightarrow \mathbb{R} - (4, 5)$$



$$-\frac{x^2}{4} + 2x + 3 \geq 0 \rightarrow 1 - \varepsilon \leq -\frac{1}{4}x^2 + 2x + 3$$

$$\frac{-1 \pm \sqrt{17}}{-1/2} \rightarrow 1 \pm \sqrt{17}$$

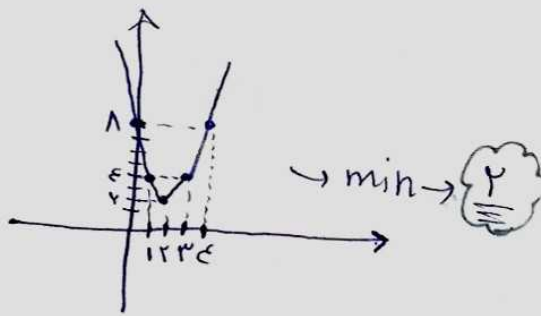
$$3 - (-1) = 4 \rightarrow \sqrt{4} = 2$$

$$(-1, 3) \rightarrow y = \frac{1}{2}(x+1) - (2x-3)(x+1)$$

$$\rightarrow \left\{ -\frac{x^2}{4} + 2x + 3 \geq 4 \right\} \rightarrow \left\{ -\frac{x^2}{4} + 2x + 4 \geq 0 \right\} \rightarrow -x^2 + 4x + 16 \geq 0$$

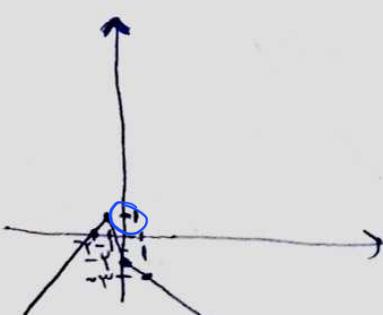
$$\min y = |x-1| + |2x-3| + |2x-5|$$

1	2	3
$1-\varepsilon x$		$x-1$
	$3-x$	$x-1+2x-5$
$\sum 2x+5$		$2x-2$



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

-1	0
$x+2$	$-x-2$



$$R_f = (-\infty, 1/3]$$

(1,۷۵)

