

حل المسألة

Year: Month: Day:

$D \rightarrow 1 - x^2 \geq 0 \rightarrow x^2 \leq 1 \rightarrow -1 \leq x \leq 1$ (1)
 $R \rightarrow x_s = \frac{-b}{2a} = 0 \quad y_s = 1 \rightarrow (-\infty, 1] \xrightarrow[\text{شبه مقلع}]{\text{بالأسفل}} R = \{1\}$

$rg \rightarrow \{(-1, 1), (0, 1), (1, 0), (1, 1)\}$
 $pf \leftarrow (-1, 1), (1, 1), (0, 1)$

$rg - pf = \{(-1, -1), (1, 1), (0, 0)\}$
 rg

فإنه لا حاجة لدراسة $x < -1$ و $x > 1$ (2)

$f(x) = 1 = 0 \rightarrow R = (0, +\infty)$
 $\frac{1}{2} f(x) + x = 0 \quad R = (-\infty, -1]$

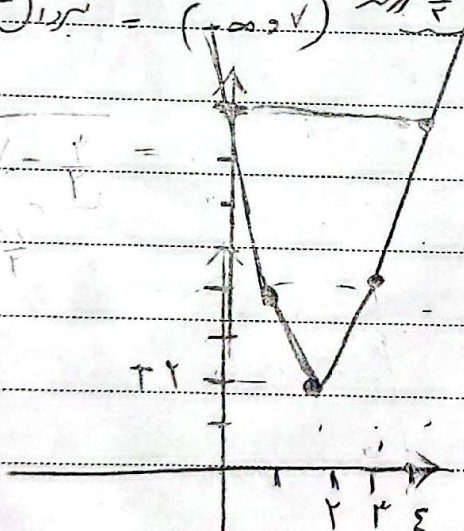
$R_f \cup R_g = (-\infty, -1] \cup (0, +\infty)$

$y = -x^2 + 2x + 4 \rightarrow x_s = \frac{-b}{2a} = \frac{-2}{-2} = 1$ (3)

$y_s = -(1)^2 + 2(1) + 4 = 5$

$rg = (-\infty, 5)$
 $\left(\frac{r}{2}, \frac{v}{2}\right) \rightarrow \sqrt{v - \frac{r^2}{4}}$
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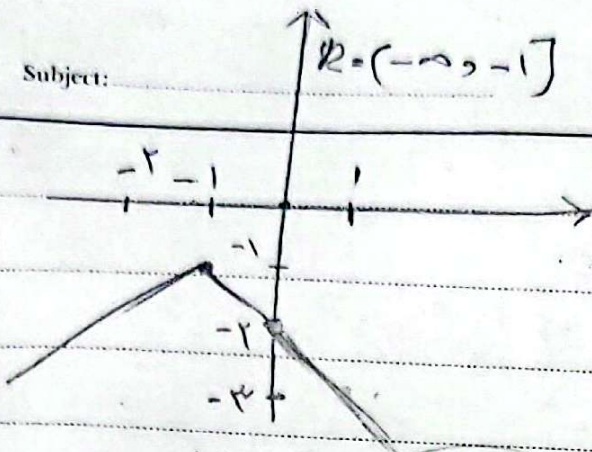
$\begin{cases} x < -1 \\ -2x + 4 \\ x > 3 \\ 2x + 2 \end{cases}$

$R = (2, +\infty)$ (+1)

Subject:

$$f(x) = \begin{cases} -x-1 & x > 0 \\ -x-1 & x \leq -1 \\ x+1 & -1 \leq x \leq 1 \end{cases}$$

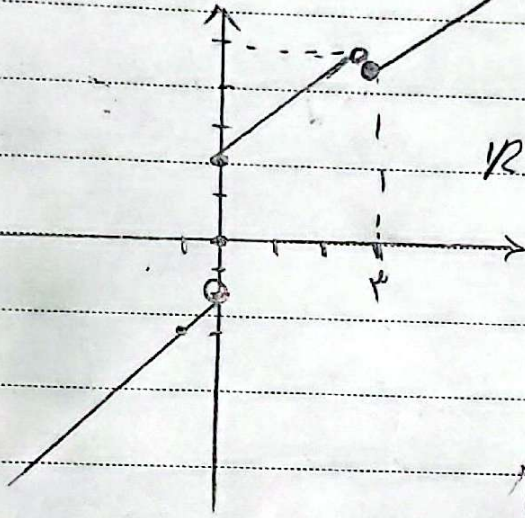
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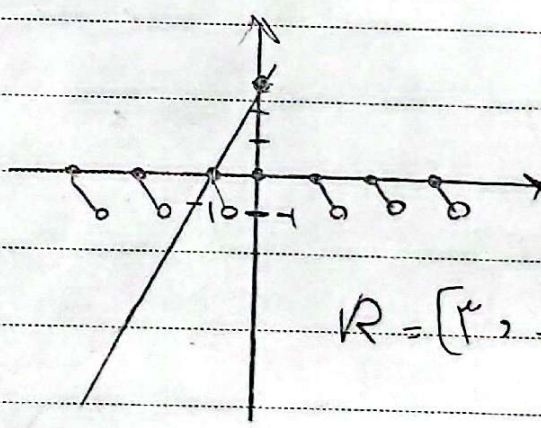
$$x+1 \quad -x-1 \quad -x-1$$

$$y = \frac{(x+1)(x+1)}{(x+1)}$$

$$1+x=0 \quad x=-1$$



$$R = (-\infty, -1) \cup [1, +\infty)$$



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

$$x+1 \geq 0 \quad x \geq -1$$

$$a+1 - \sqrt{x(-\frac{x}{x})+c} = 0$$

$$a+1=0 \quad a=-1$$

$$x = \frac{x}{x} = -1$$

$$x+1 \geq 0 \rightarrow x \geq -1 \quad 1-x \geq 0 \rightarrow x \leq 1 \quad \therefore -1 \leq x \leq 1$$

$$x = \sqrt{x}$$