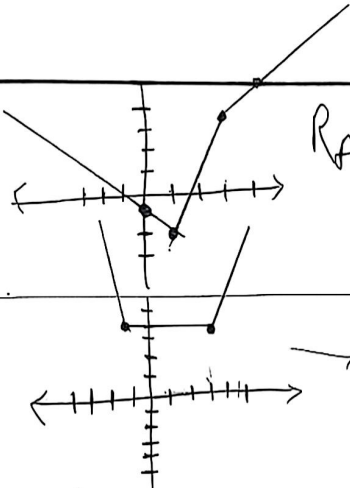
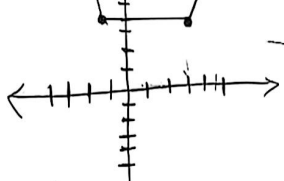
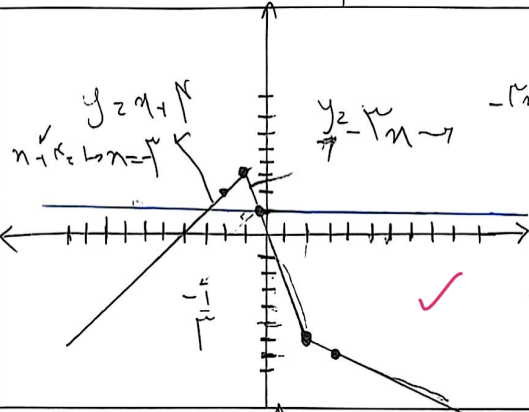
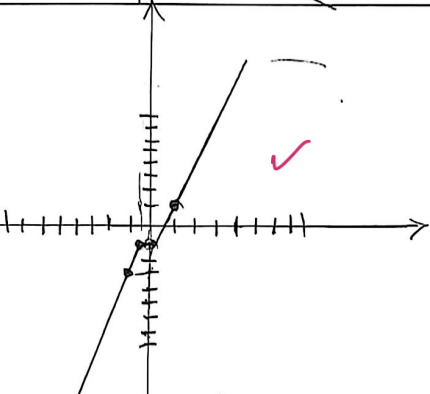
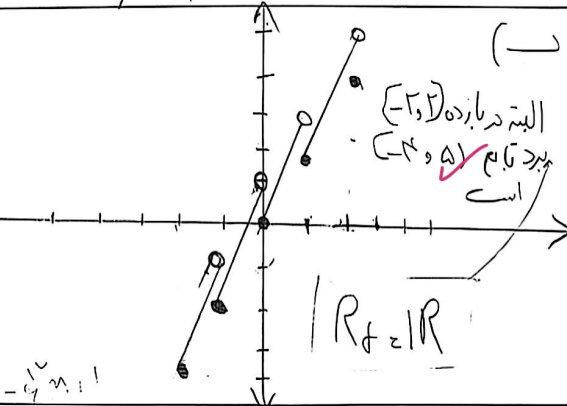
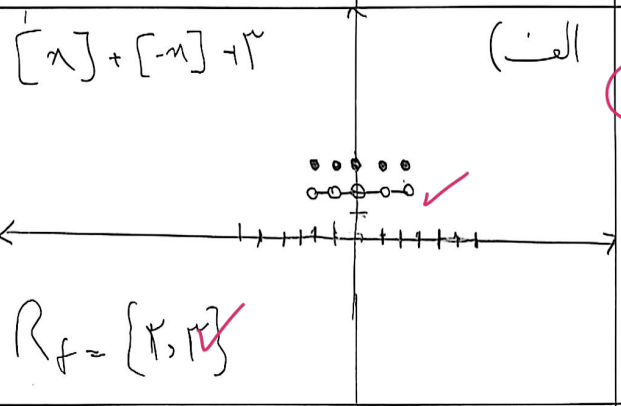


الف)  $R_f = [-2, +\infty)$ ✓	٢
ب)  $R_f = [2, +\infty)$ ✓	٤
 $y = \frac{1}{2}x + 1$ $y = -\frac{1}{2}x - 1$ $x = -1 \rightarrow y = -\frac{1}{2}$ $x \in \mathbb{R} \setminus (-\frac{1}{2}, \frac{1}{2})$ ✓	٢ ٧
 $R_f = \mathbb{R}$ ✓	٢ ٨
 $R_f = \mathbb{R}$	الف)  $[x] + [-x] + 3$ $R_f = [2, 3]$ ✓
الف: $\sin x$ $1 \rightarrow y = 1$ $-1 \rightarrow y = -1$ $\frac{1}{x} \rightarrow y = \frac{1}{x}$ $R_f = [\frac{1}{x}, 1]$ ✓	٢
$y = (\sin x)^2 + (\sin x)' + 1$ $1 \rightarrow y = 1$ $0 \rightarrow y = 0$ $-\frac{1}{x} \rightarrow y = -\frac{1}{x}$ $R_f = [1, 1]$ ✓	١