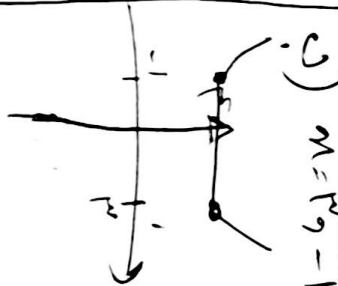
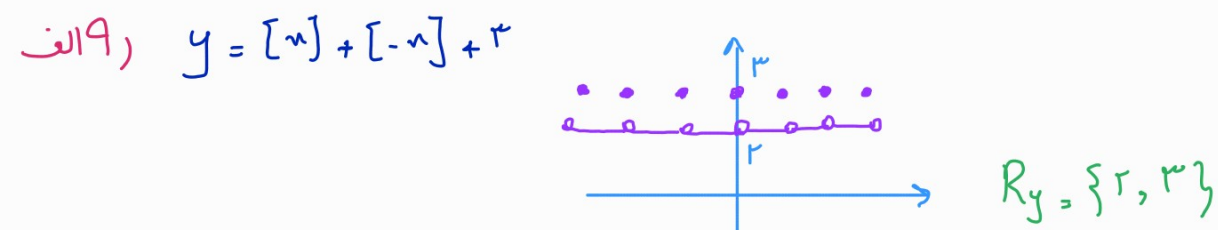
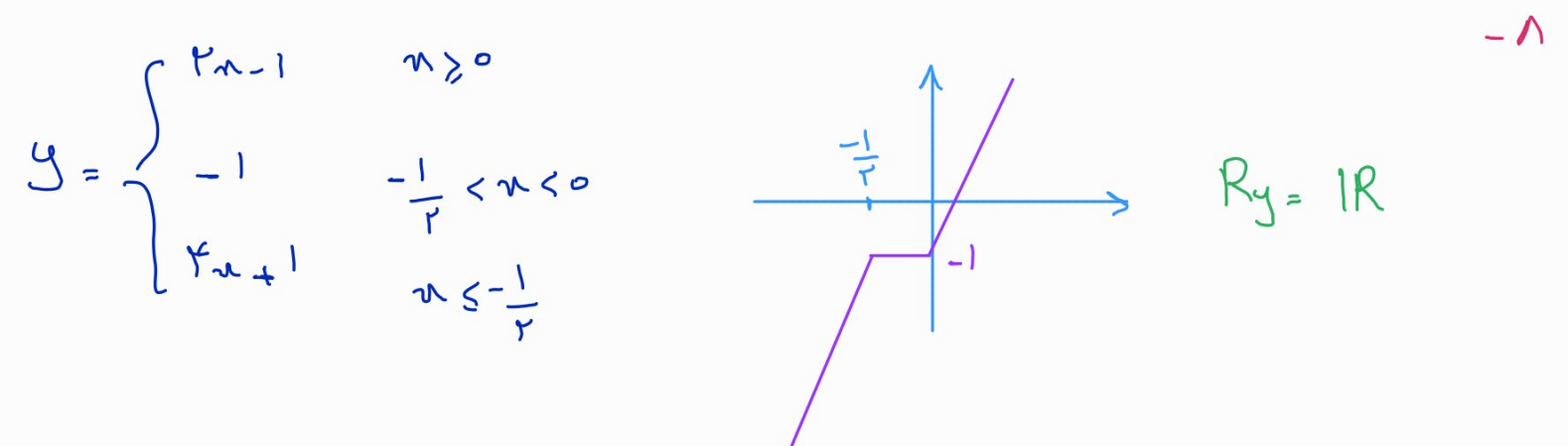
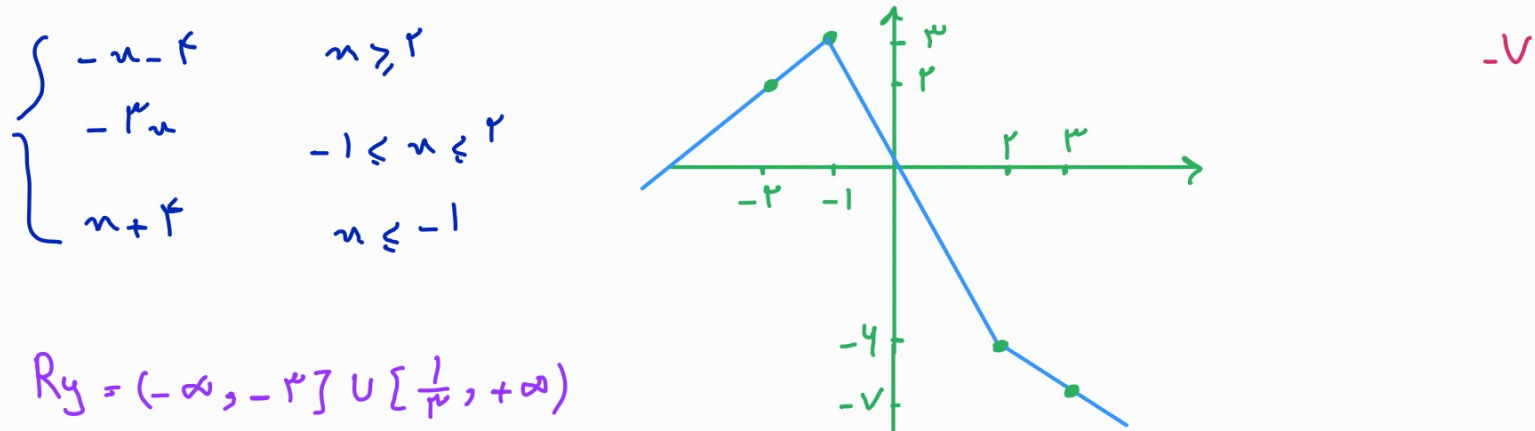
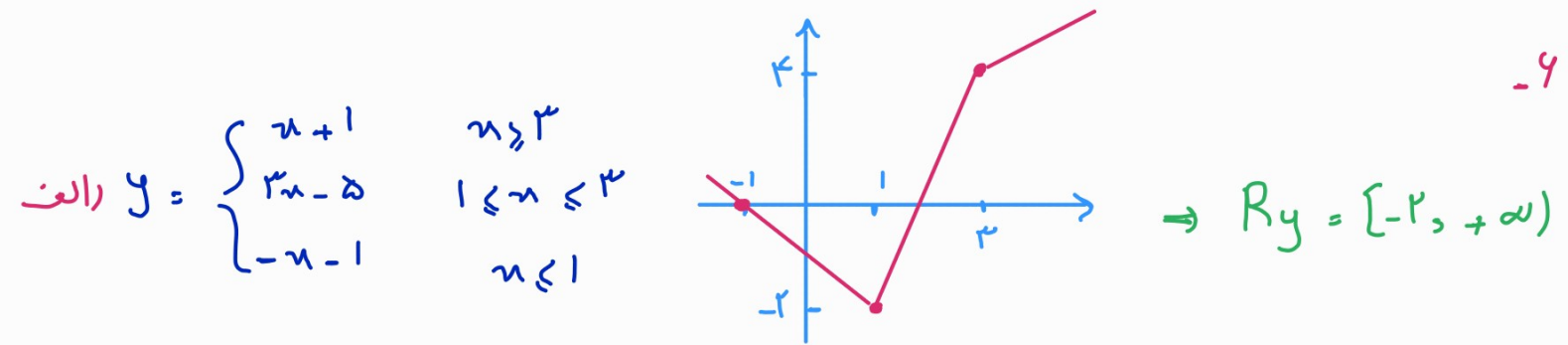


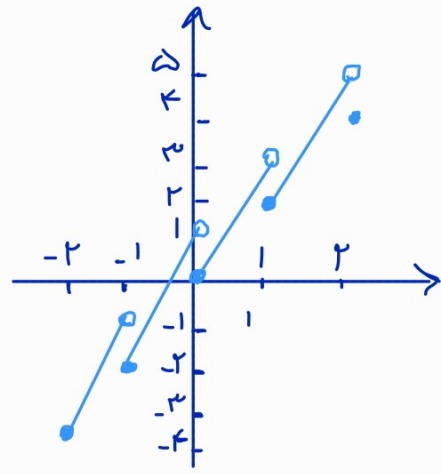
Scanned with CamScanner

ا) $n=1$ $n=1$ $n-1 =1 \rightarrow y=-n-1$ $n=1 \rightarrow y=-1$ $n \rightarrow -\infty \rightarrow y=+\infty$ $R_f = [-1, +\infty)$ الحل: ٢	ب) $n=1$  $R_f = [-1, +\infty)$ الحل: ١, ٢	(١, ٢)
$n=1, n=-1$ $n < 1$ $-n+1$		٠
$n=-\frac{1}{p}$ $n=0$ $n < -\frac{1}{p}$		٠
ا) $[n] + [n-n] = 1$ $[n + [n-n]] = 1$ $-1, 0, 1$ $y=1$ الحل: $R_f = \{1, 1\}$	ب) $[n] = -1$ $y=1, n+1$ $[-1, -1)$ $-1 < n < 0$ $[n] = -1, y=1, n+1$ $R_f = [-1, +\infty)$ الحل: ١, ٢	(١, ٢)
ا) $\sin n = 1$ $-1 < + < 1$ $y = +\frac{1}{p} + 1$ $G \left(+\frac{1}{p} \right) + \frac{1}{p}$ $+ = -1$ $R_f = \left[\frac{1}{p}, 1 \right]$ $Gy = 1 + 1 = 1$	ب) $\sin n = 1$ $-1 < + < 1$ $y = +\frac{1}{p} + 1$ $Gy = 1 + 1 = 1$ $y = 1 + 1 = 1$	(١, ٢)

ب) $\frac{n^r+1}{n} = n + \frac{1}{n} \xrightarrow{\substack{a+\frac{1}{a} \geq 2 \\ a+\frac{1}{a} \leq -2}} R = (-\infty, -r] \cup [r, +\infty)$ -5

$\xrightarrow{\lg_r} R_y = [1, +\infty)$





$$R_y = [-1, \infty)$$