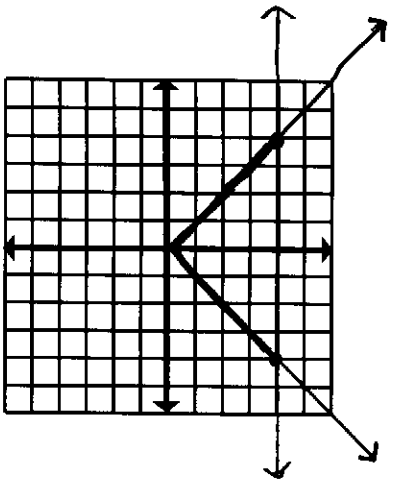


Algebra II

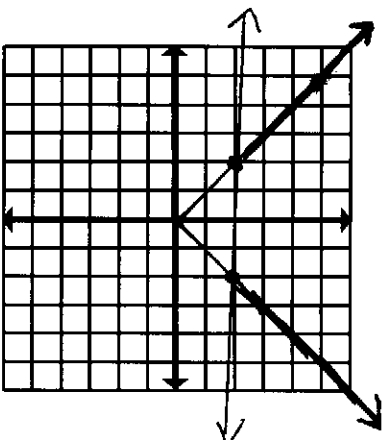
Solve each inequality graphically. State your answer using interval notation.

1) $|x| < 4$



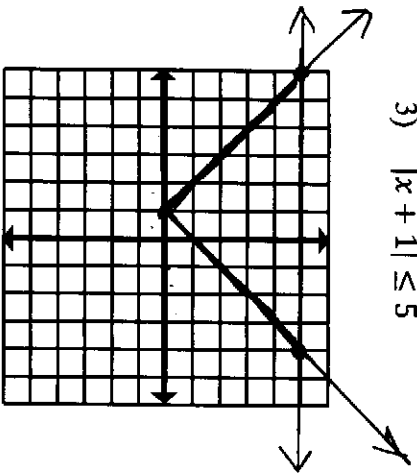
$(-4, 4)$

2) $|x| \geq 2$



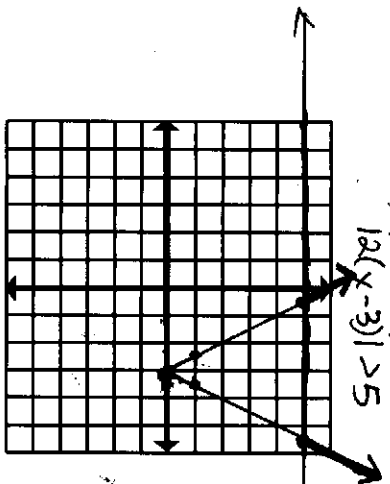
$(-\infty, -2] \cup [2, \infty)$

3) $|x+1| \leq 5$



$[-6, 4]$

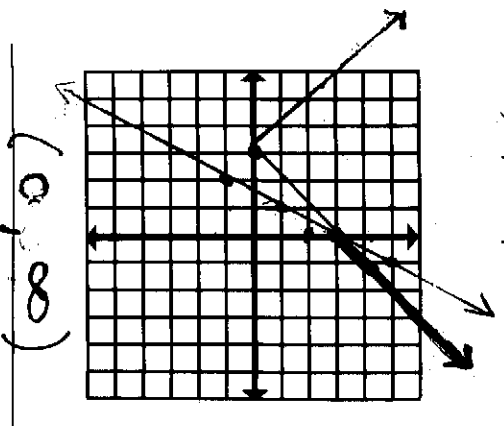
4) $|2x-6| > 5$
 $|2(x-3)| > 5$



$(-\infty, 0.5) \cup (3.5, \infty)$

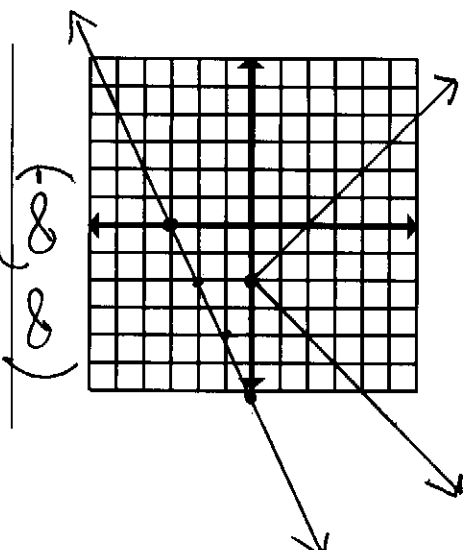
$(0,0)$ $(1,1)$ $(-1,1)$
 $x \div 2$ $(0,0)$ $(\frac{1}{2}, 1)$ $(-\frac{1}{2}, 1)$
 $x+3$ $(3,0)$ $(\frac{3}{2}, 1)$ $(\frac{3}{2}, 1)$

5) $|x+3| < 2x+3$



$(0, \infty)$

6) $|x-2| \geq \frac{1}{2}x-3$



$(-\infty, \infty)$