

Algebra 1 6.6

Solve systems of linear inequalities by graphing* Ch. 5.6

Apply systems of linear inequalities

linear inequality* $y < x + 5$

system

boundary

open $< >$ - - -

closed $\geq \leq$ _____

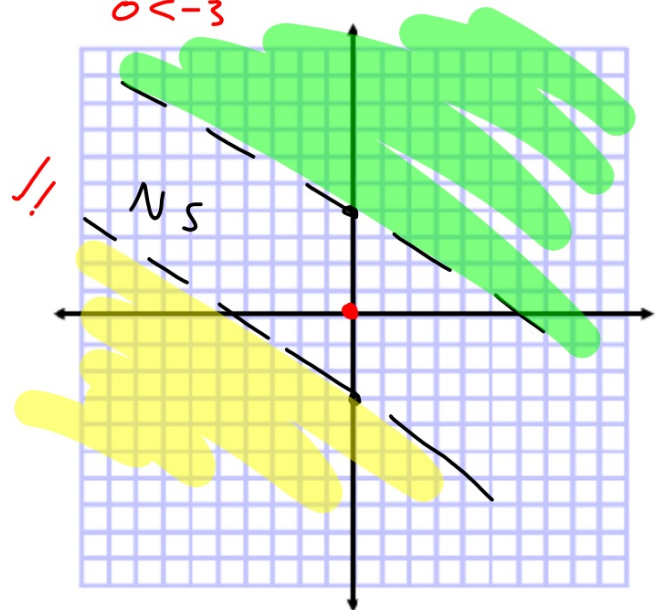
$y = k$ (horizontal) $y = 3$

$x = k$ (vertical) $x = 2$

whiteboards

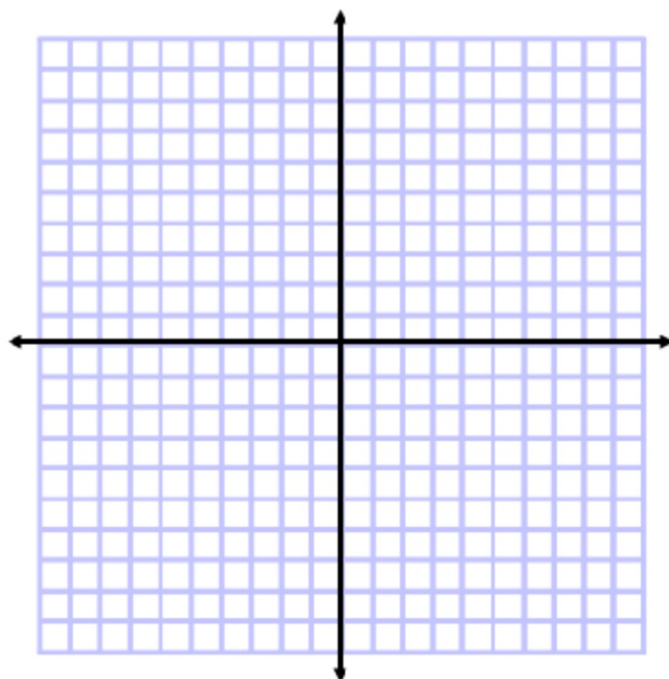
$$\begin{aligned} x + y &> 4 \rightarrow y = -x + 4 \\ x + y &< -3 \rightarrow y = -x - 3 \end{aligned}$$

$0 < -3$

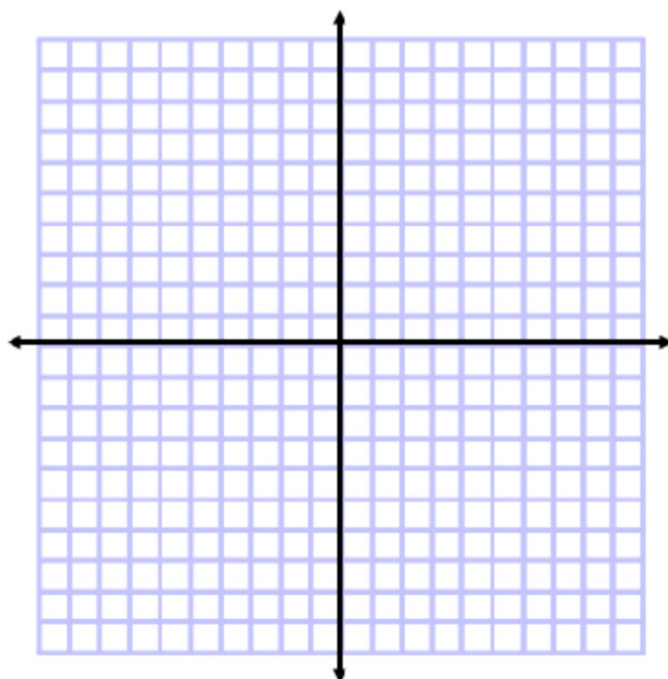


Whiteboards

1C. $y \geq -4$
 $3x + y \leq 2$



1D. $x + y > 2$
 $-4x + 2y < 8$

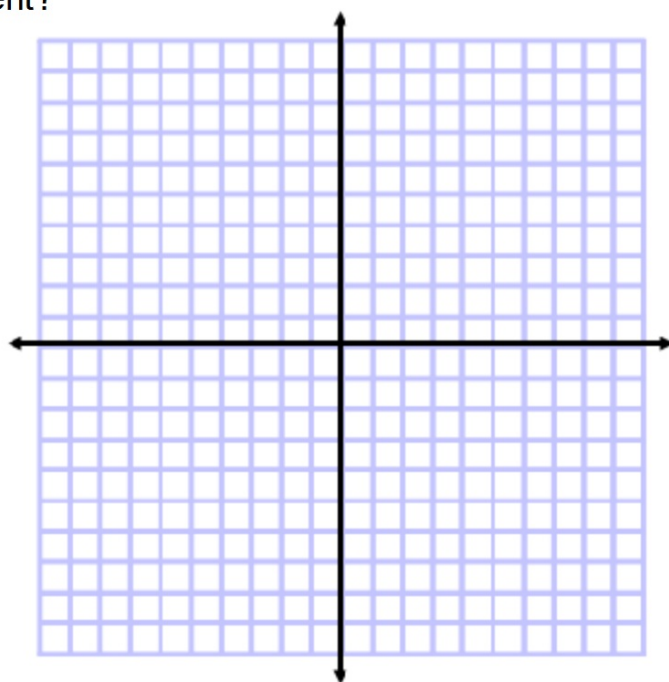


How is this problem different?

GuidedPractice

2A. $y > 3$

$y < 1$



2B. $x + 6y \leq 2$
 $y \geq -\frac{1}{6}x + 7$

$y \leq 2x + 2$

$y \geq -1x + 1$

