

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

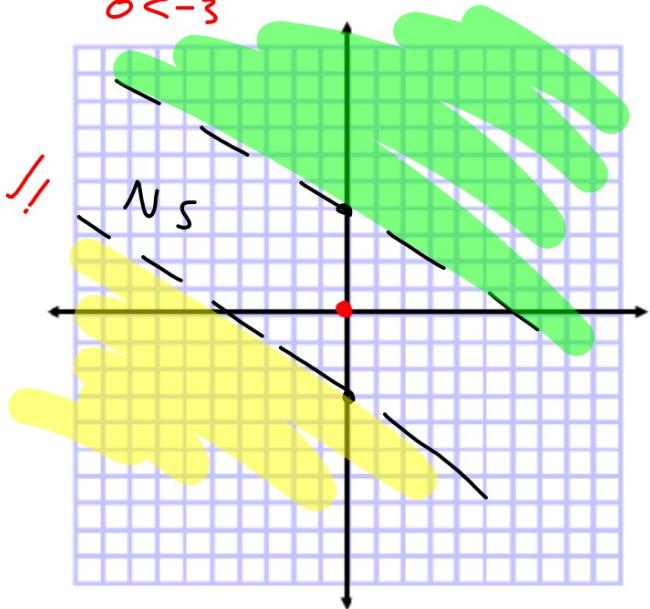
closed $\backslash \wedge \backslash \wedge$ _____

$$y = k \text{ (horizontal)} \quad \nu = 3$$

$y = k$ (horizontal)
 $x = k$ (vertical)

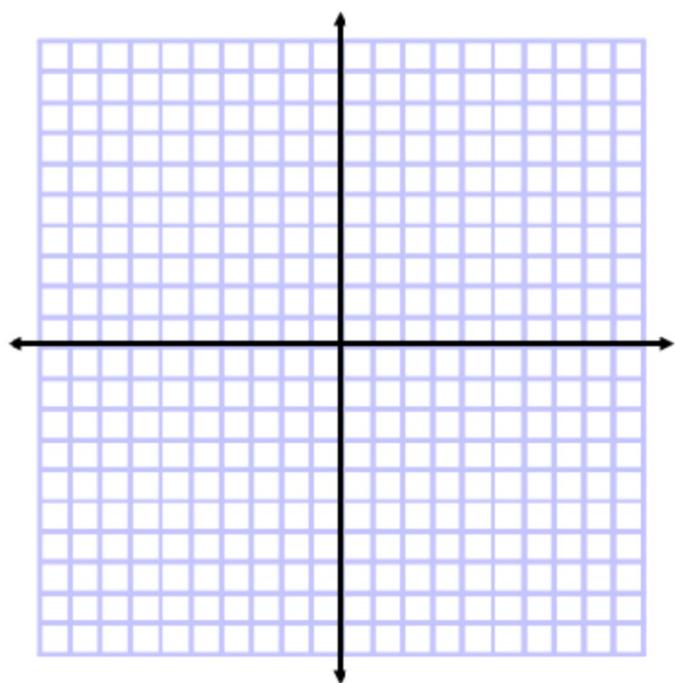
$x = 2$
whiteboards

$$\begin{array}{l} \boxed{y > -k + 4} \\ \boxed{y < -k - 3} \\ 0 \leq -3 \end{array}$$

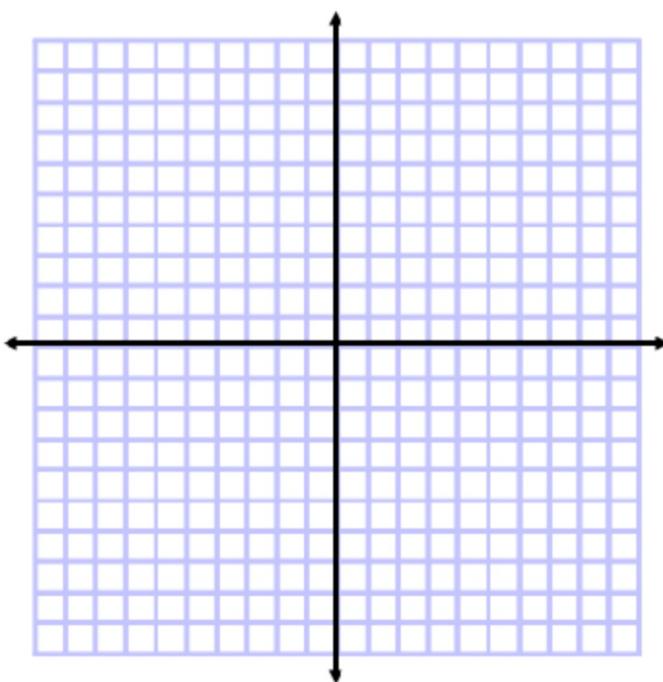


Whiteboards

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



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

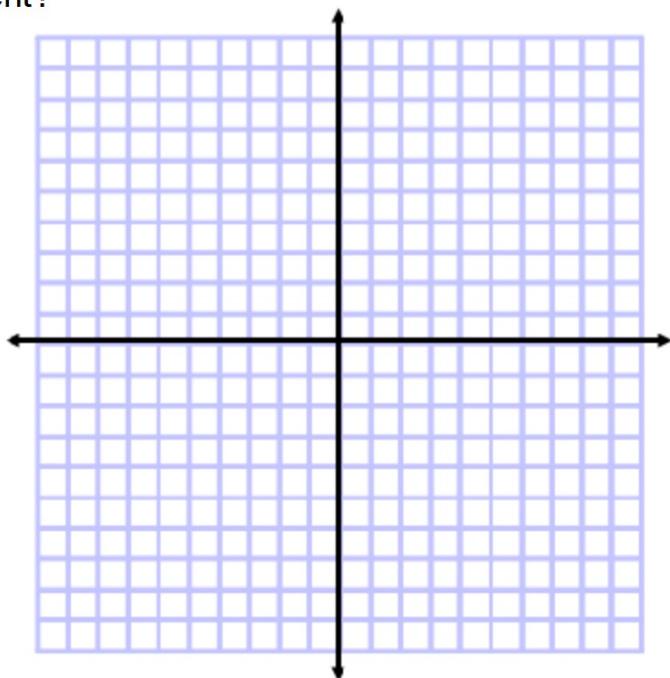


How is this problem different?

Guided Practice

2A. $y > 3$

$y < 1$



2B. $x + 6y \leq 2$
 $y \geq -\frac{1}{6}x + \frac{1}{3}$

