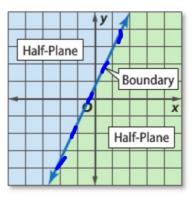
Algebra 1 5.6
Graph linear inequalities on the coordinate plane
Solve inequalities by graphing
linear
boundary
half-plane
open
closed
test point
whiteboards



## **Example 3** Solve Inequalities From Graphs

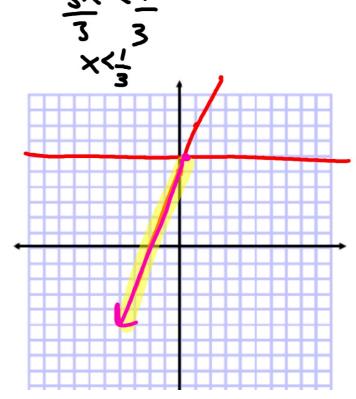
Use a graph to solve 3x + 5 < 6

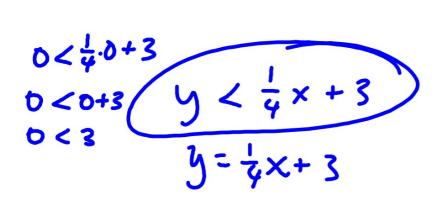
Graph y=3x+5

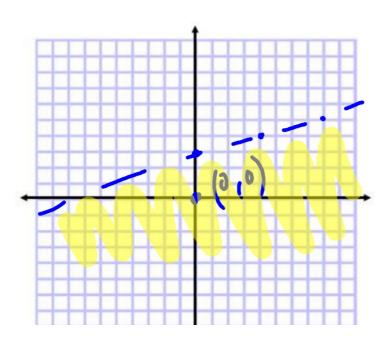
Graph y=6

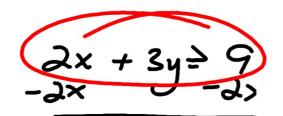
Where is 3x+5 lower on the graph (smaller y-coord = less) than 6 3x < 1

 $\frac{y=3x+5}{10wer}$   $\frac{y=6}{10wer}$ 









 $\frac{2x + 3y = 9}{3y = -2x}$   $\frac{3y = -2x + 3y}{3x = 3x}$   $\frac{3y = -2x + 3y}{3x = 3x}$ 

