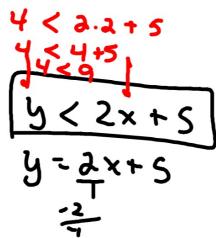
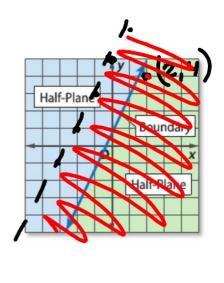
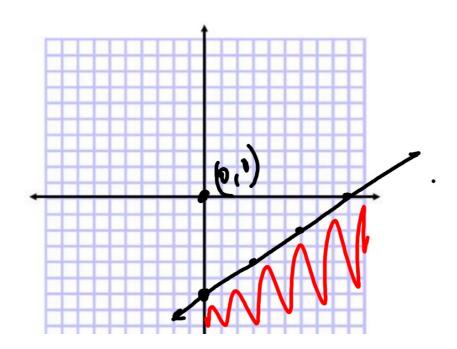
Algebra 1 5.6
Graph linear inequalities on the coordinate plane
Solve inequalities by graphing
linear

boundary
half-plane
open
closed
test point
whiteboards







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

Use a graph to solve 3x + 5 < 2

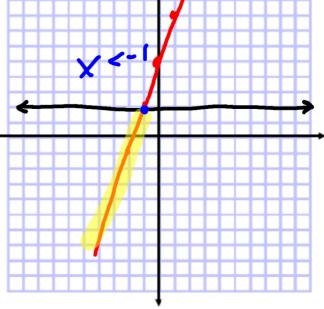
Graph y=3x+5

Graph y=6

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

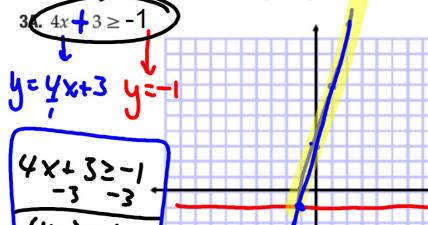
$$y=3x+5$$
  $y=2$ 
 $3x+5<2$ 
 $-5-5$ 
 $3x-3$ 
 $x<-1$ 





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Use a graph to solve each inequality.



X 2 - 1

1/2x -3<u>≥</u>2

