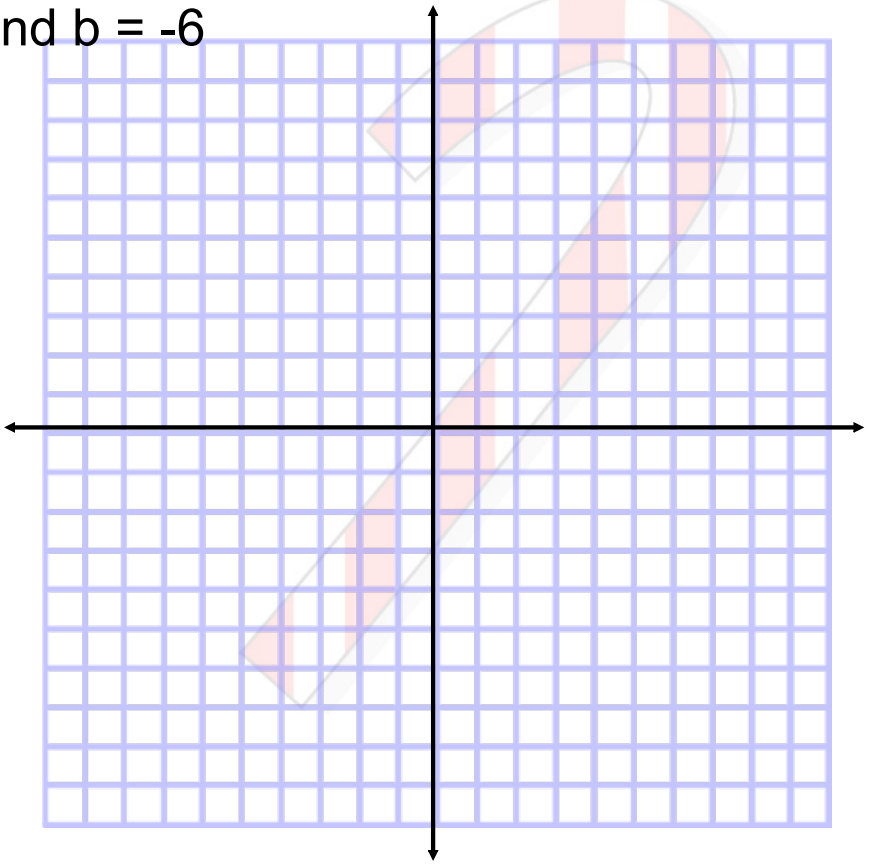
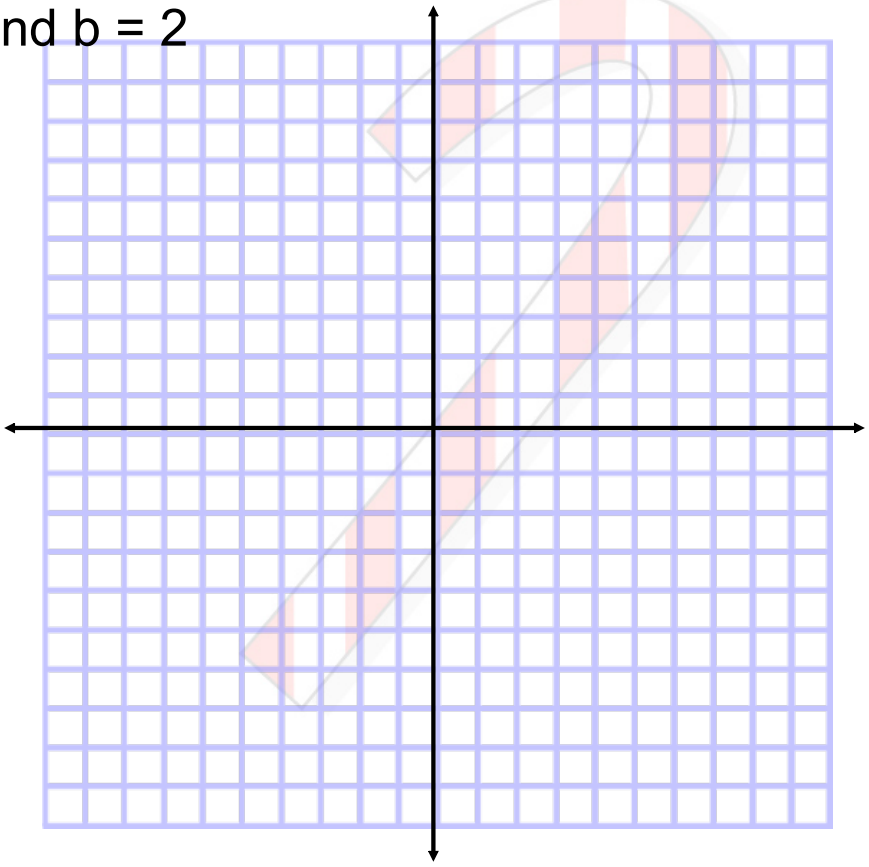
3.E.2 & 3 Graphing lines given a point and slope or two points

We have been practicing graphing lines in y = mx + b form. We need m (slope) and b (y intercept) in order to graph them. We BEGIN on the y axis with the b value, then use the m (rise over run) to get to the next point.

Can you graph the line where m = 2/3 and b = -6



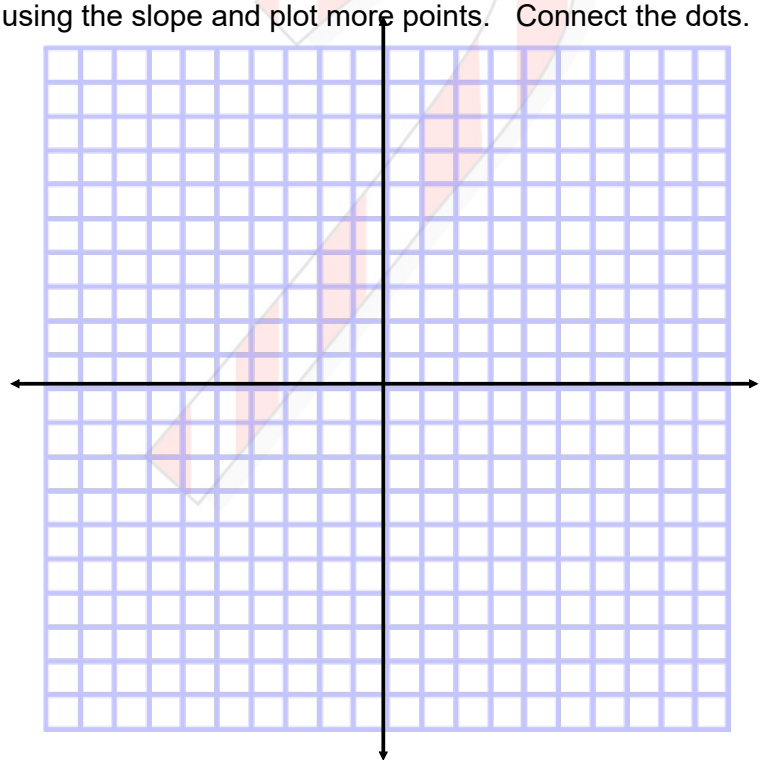
Can you graph the line where m = -3 and b = 2



What happens if we are given a point and a slope instead?

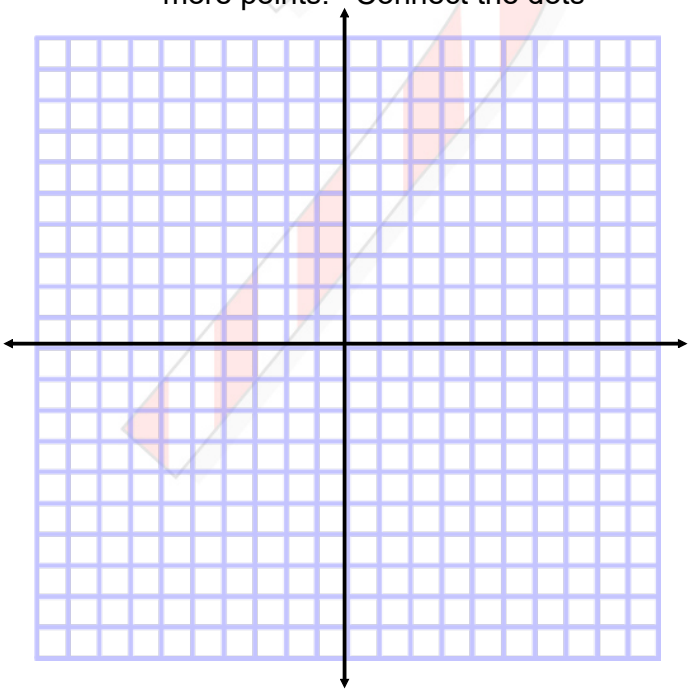
Can you graph the line that goes through the point (3, 5) and has a slope of 2/3?

Plot the following point (3,5). Starting at (3,5), use the slope of 2/3 (rise 2, run 3) to plot another point. Continue using the slope and plot more points. Connect the dots.



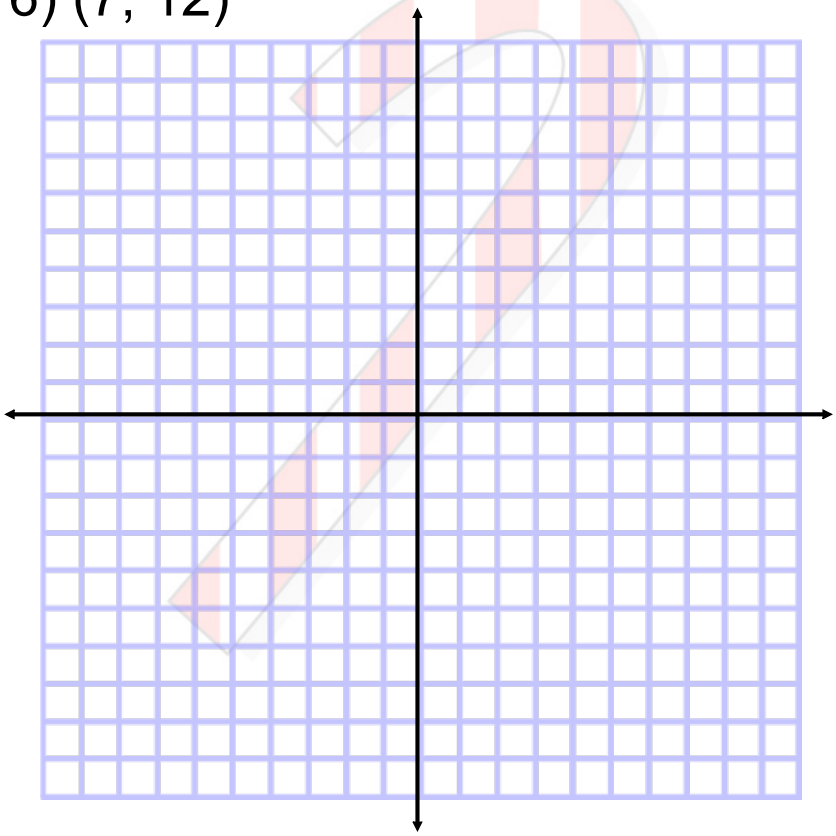
Can you graph the line that goes through the point (-4,2) and has a slope of -1/2?

Plot the following point (-4, 2). Starting at (-4, 2), use the slope of -1/2 to plot another point. Continue using the -1/2 slope and plot more points. Connect the dots

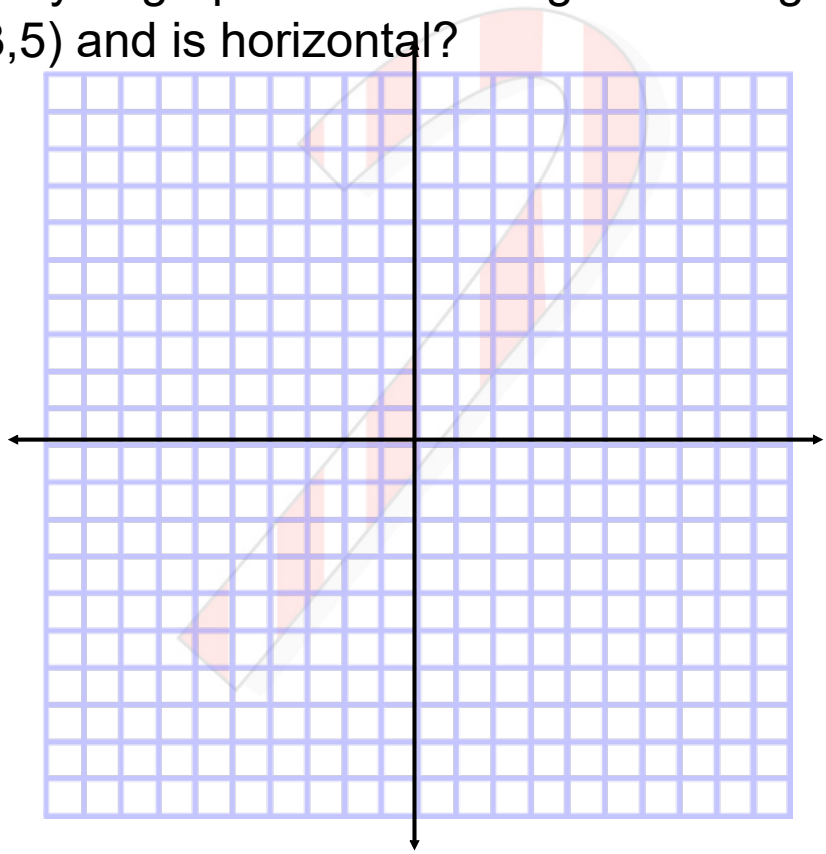


Can you graph a line given only two points?

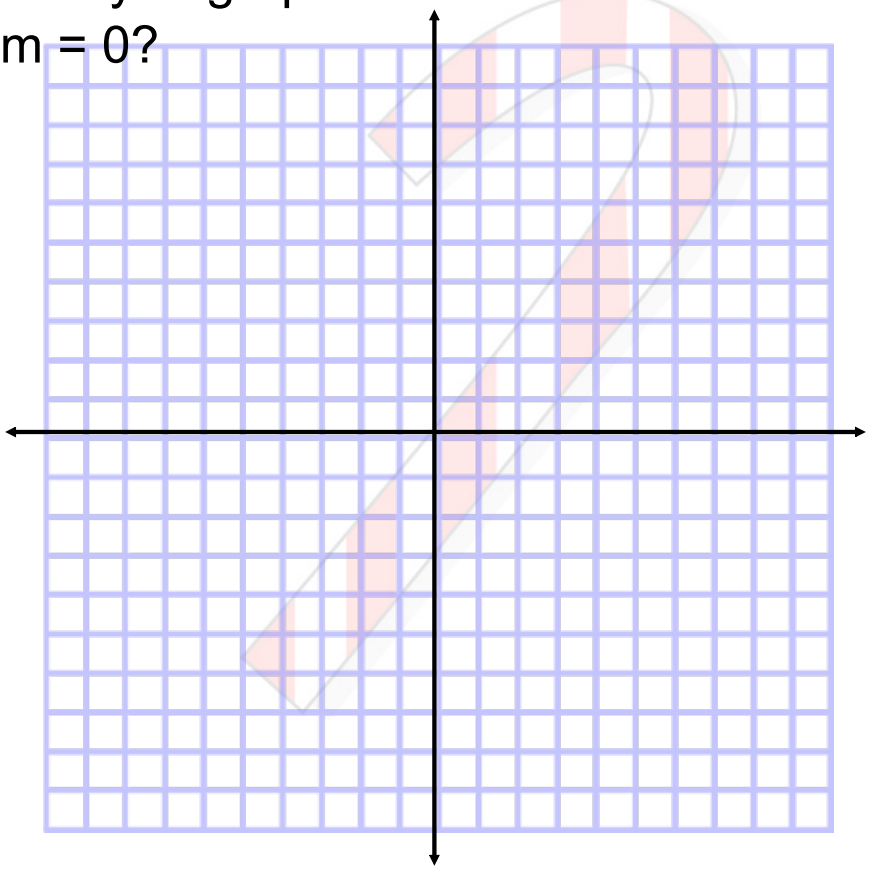
(4, 6) (7, 12)



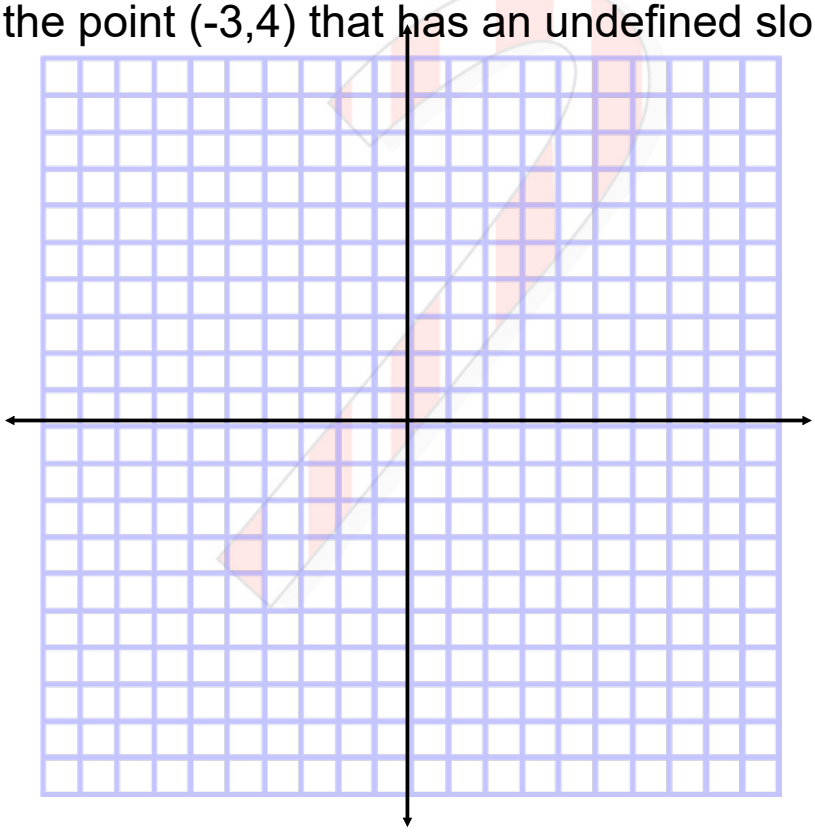
Can you graph the line that goes through (-3,5) and is horizontal?



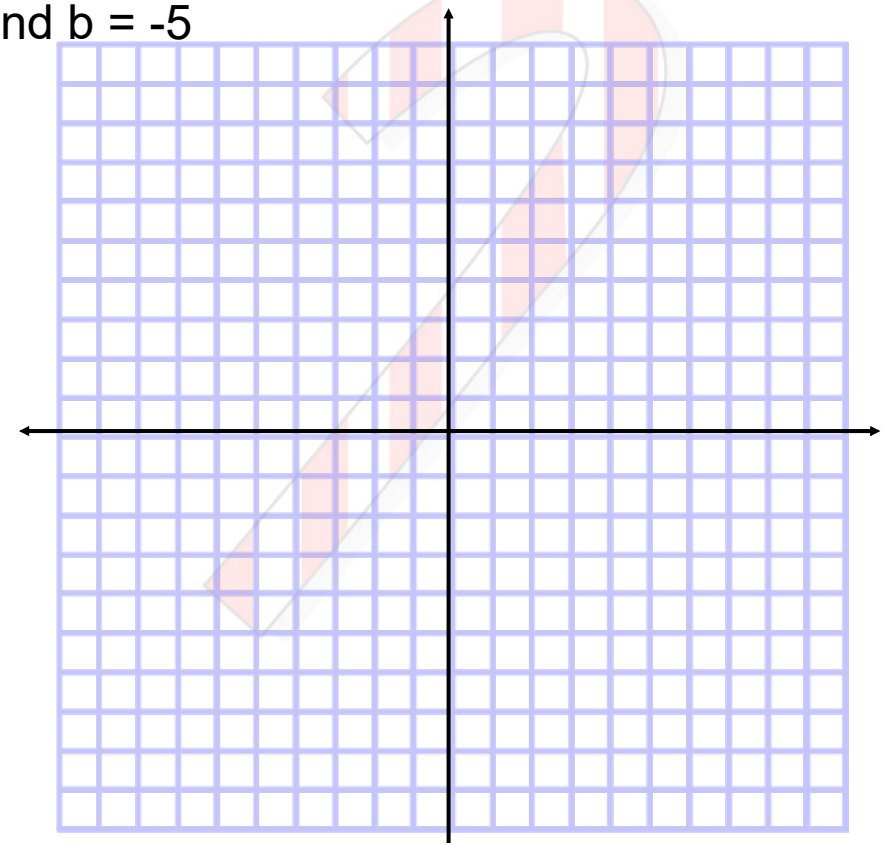
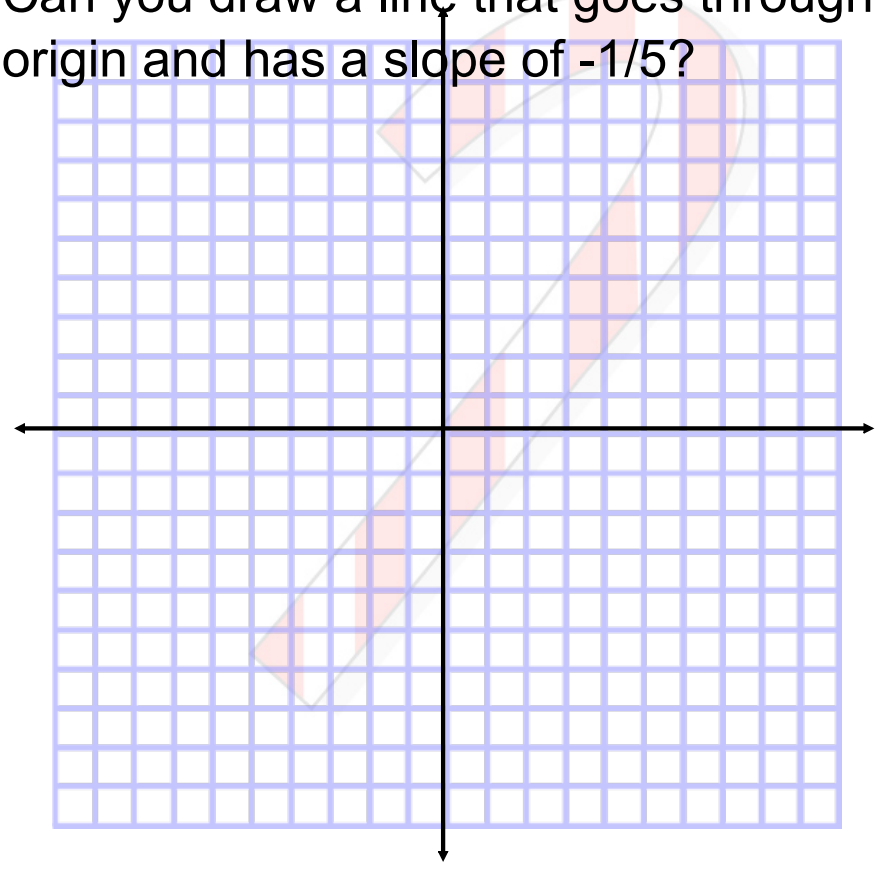
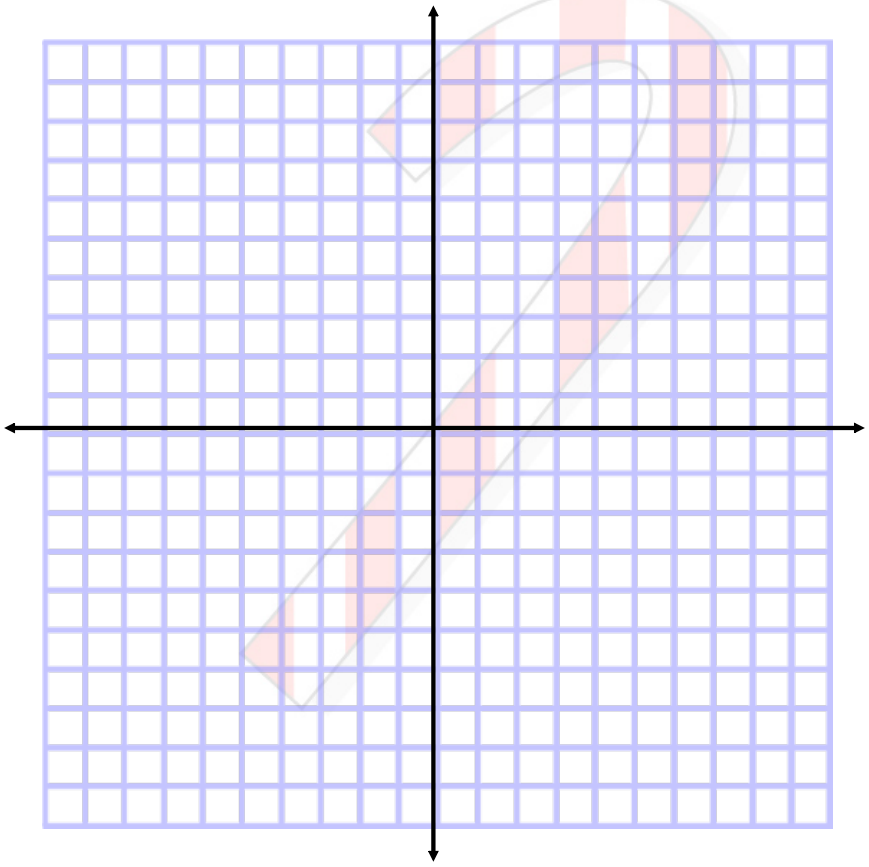
Can you graph the line where b = 5 and m = 0?



Can you graph the line that passes through the point (-3,4) that has an undefined slope?



Can you graph the line where m = 3/4 and b = -5



Can you draw a line that goes through the origin and has a slope of -1/5?