

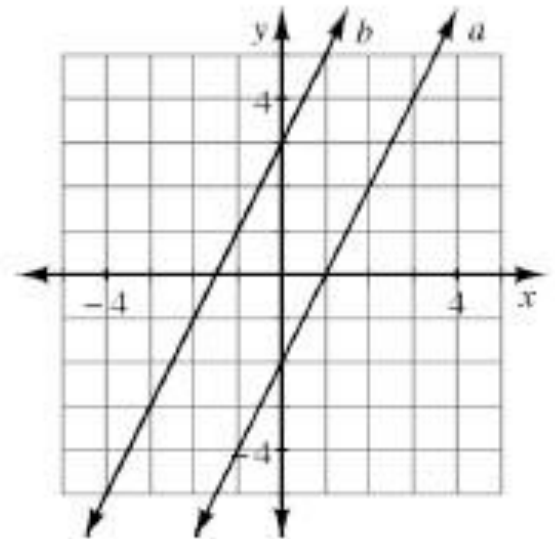


2-31. Does the table below appear to represent a function? If so, write an equation using function notation that represents the table. If not, explain why it cannot represent a function.

Figure # <i>x</i>	0	1	2	3	4
# of tiles <i>y</i>	4	8	12	16	20

2-32. When Yoshi graphed the lines $y = 2x + 3$ and $y = 2x - 2$, she got the graph shown at right.

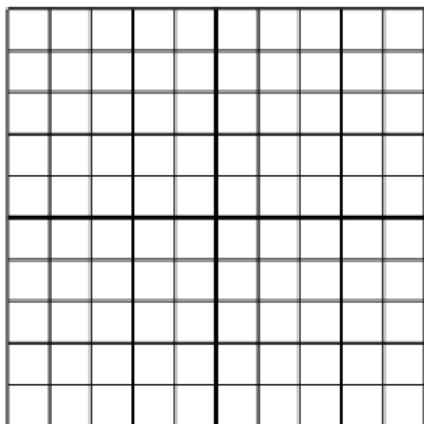
- a. One of the lines at right matches the equation $y = 2x + 3$, and the other matches $y = 2x - 2$. Which line matches which equation?



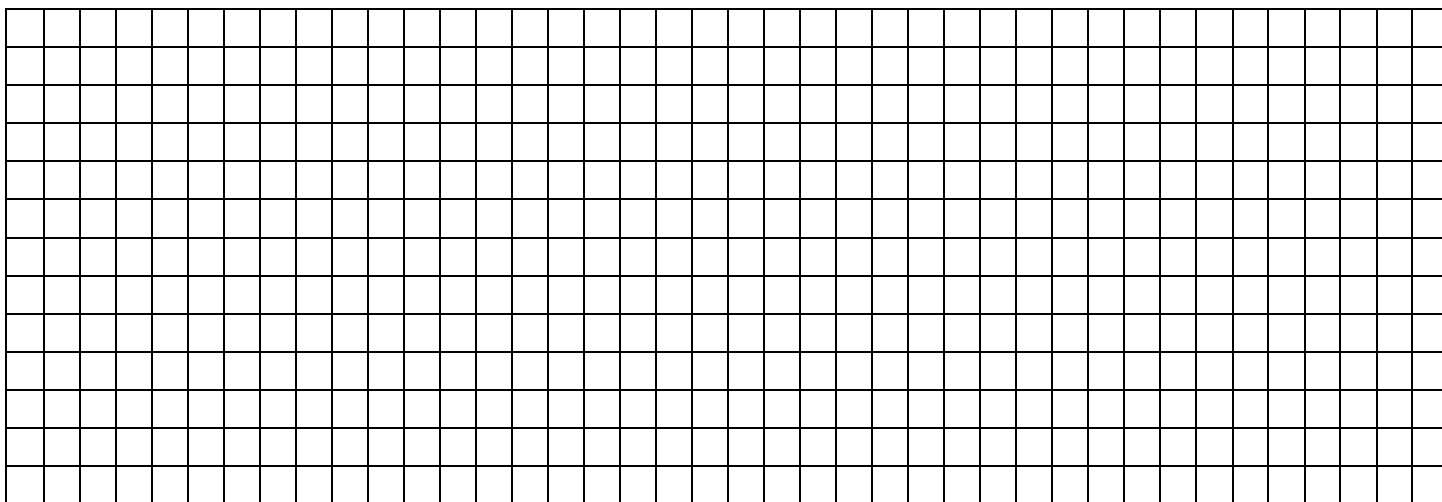
- b. Yoshi wants to add the line $y = 2x + 1$ to her graph. Predict where it would lie and sketch a graph to show its position. Justify your prediction.

- c. Where would the line $y = -2x + 1$ lie? Again, justify your prediction and add the graph of this line to your graph from part (b).

2-33. On graph paper, graph a line with y -intercept $(0, -4)$ and x -intercept $(3, 0)$. Find the equation of the line.



2-34. Draw Figures 1, 2, and 3 for a tile pattern that could be described by $y = -3x + 10$.



2-35. What number is not part of the domain of $f(x) = \frac{3}{x+5}$? How can you tell?