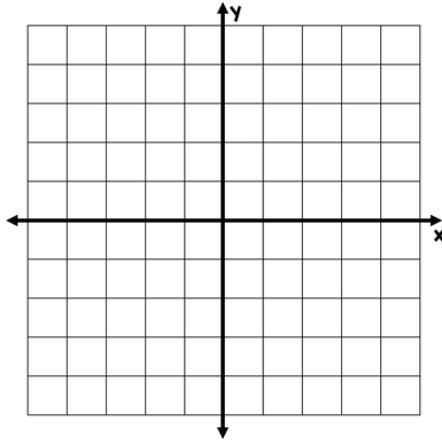


GRAPHING LINEAR EQUATION BY USING TABLE

Graph the linear equations using a table of values.

(1)

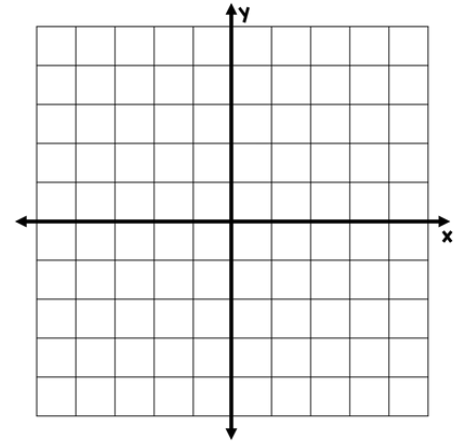
| | | | | | |
|---|----|----|----|----|----|
| x | 2 | 4 | 6 | 8 | 10 |
| y | -1 | -3 | -5 | -7 | -9 |



Step 1 : Find the x- and y-intercepts of the line from the equation.

(2)

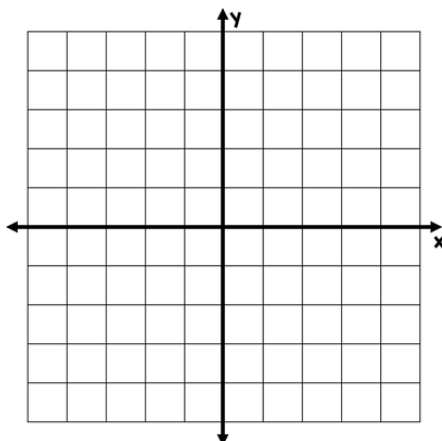
| | | | | | |
|---|----|----|----|----|----|
| x | -7 | -5 | -1 | 0 | 1 |
| y | 7 | 3 | 0 | -3 | -5 |



Step 2 : Let and solve for x. Let and solve for y.

(3)

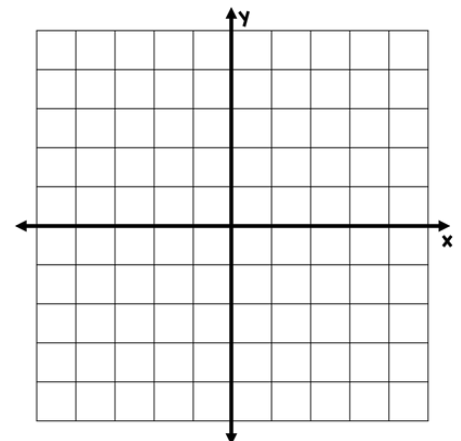
| | | | | | |
|---|----|----|----|---|---|
| x | -4 | 0 | 4 | 6 | 2 |
| y | -6 | -4 | -2 | 0 | 2 |



Step 3 : Plot the five points and check that they line up.

(4)

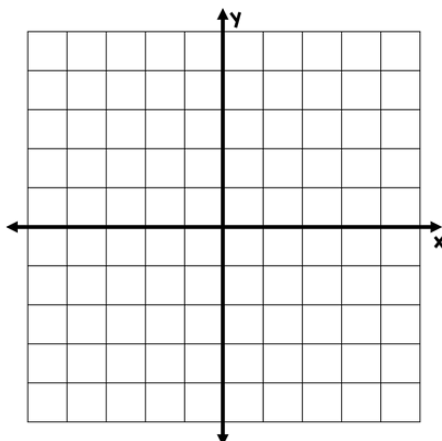
| | | | | | |
|---|---|----|----|----|-----|
| x | 5 | 10 | 15 | -5 | -15 |
| y | 0 | -5 | 5 | 10 | 20 |



Step 4 : Draw the line.

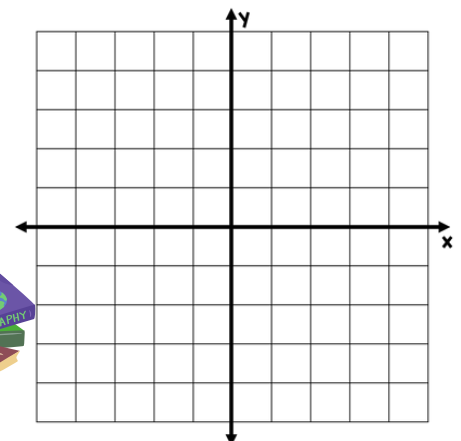
(5)

| | | | | | |
|---|----|----|----|----|-----|
| x | 15 | 9 | -3 | -9 | -12 |
| y | -6 | -3 | 2 | 4 | 6 |



(6)

| | | | | | |
|---|----|----|----|----|----|
| x | -6 | 12 | 18 | 24 | 30 |
| y | -6 | 10 | 16 | 20 | 25 |



$$y = mx + b$$

