



Equation of a Straight Line

Tables of Values, Gradient and Intercept Activity Sheet

1.

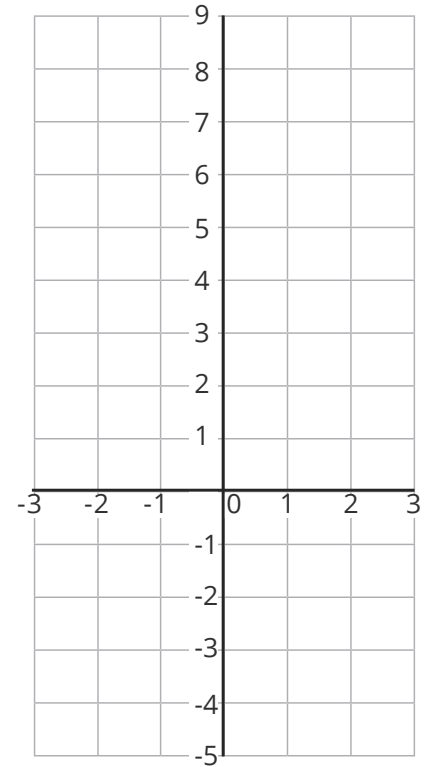
a. Complete the table of values for the graph $y = 3x + 2$.

x	-2	-1	0	1	2
y					

b. Use the axes below to draw the graph of $y = 3x + 2$.

c. What is the gradient of the graph?

d. What is its y -intercept?



2.

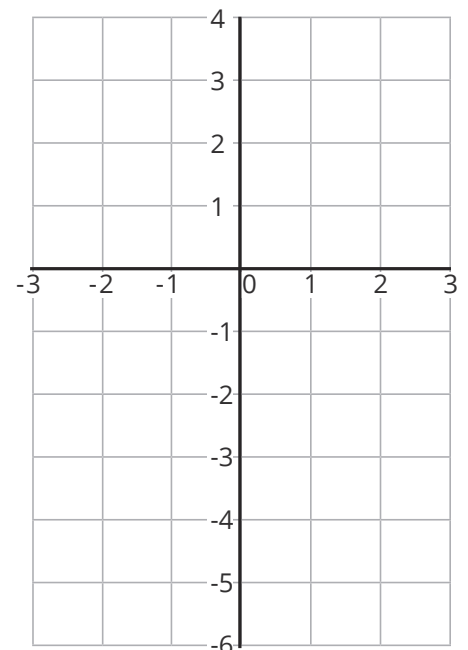
a. Complete the table of values for the graph $y = 2x - 1$.

x	-2	-1	0	1	2
y					

b. Use the axes below to draw the graph of $y = 2x - 1$.

c. What is the gradient of the graph?

d. What is its y -intercept?



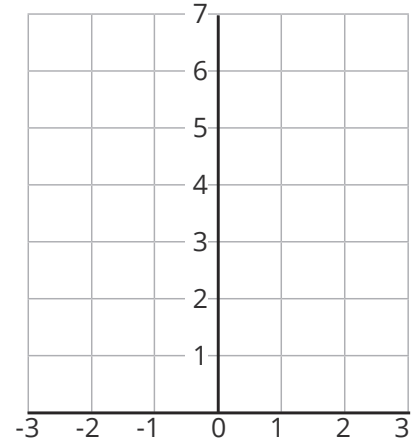


3.

a. Complete the table of values for the graph $y = x + 4$.

x	-2	-1	0	1	2
y					

b. Use the axes below to draw the graph of $y = x + 4$.



c. What is the gradient of the graph?

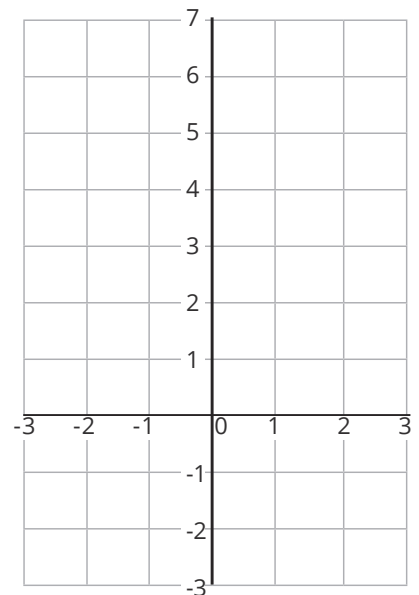
d. What is its y -intercept?

4.

a. Complete the table of values for the graph $y = -2x + 2$.

x	-2	-1	0	1	2
y					

b. Use the axes below to draw the graph of $y = -2x + 2$.



c. What is the gradient of the graph?

d. What is its y -intercept?



Equation of a Straight Line **Answers**

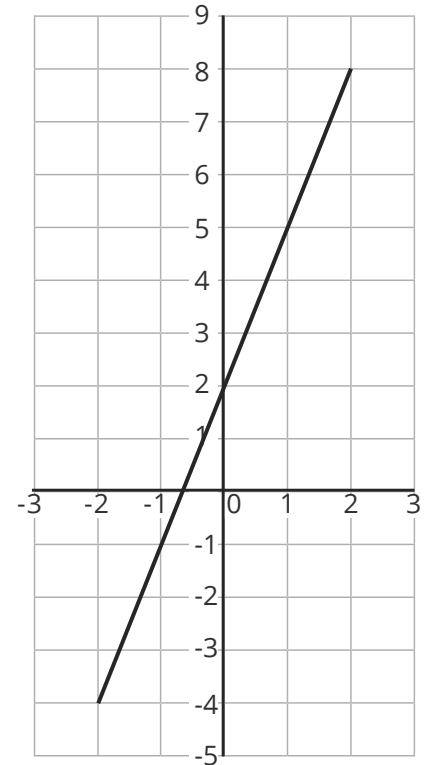
Tables of Values, Gradient and Intercept Activity Sheet

1.

a. Complete the table of values for the graph $y = 3x + 2$.

x	-2	-1	0	1	2
y	-4	-1	2	5	8

b. Use the axes below to draw the graph of $y = 3x + 2$.



c. What is the gradient of the graph?

3

d. What is its y -intercept?

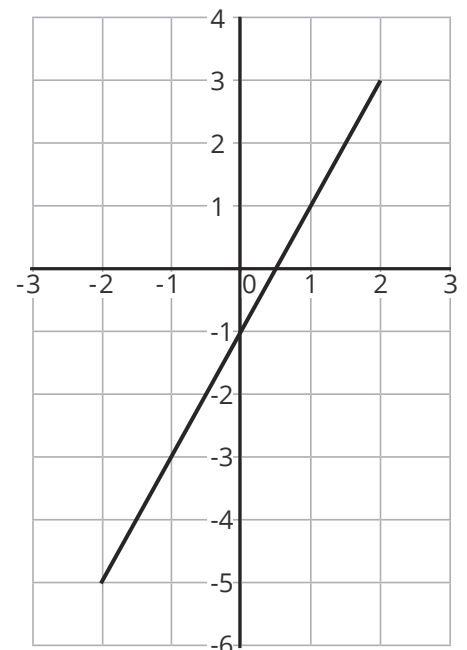
2

2.

a. Complete the table of values for the graph $y = 2x - 1$.

x	-2	-1	0	1	2
y	-5	-3	-1	1	3

b. Use the axes below to draw the graph of $y = 2x - 1$.



c. What is the gradient of the graph?

2

d. What is its y -intercept?

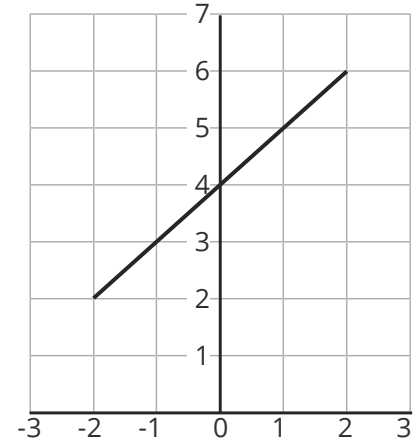
-1



3.

a. Complete the table of values for the graph $y = x + 4$.

x	-2	-1	0	1	2
y	2	3	4	5	6

b. Use the axes below to draw the graph of $y = x + 4$.

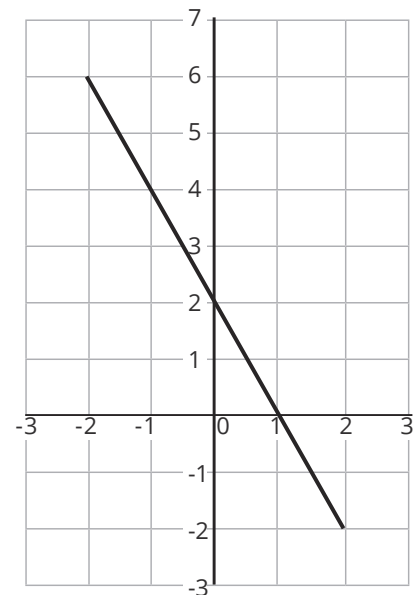
c. What is the gradient of the graph?

1d. What is its y -intercept?**4**

4.

a. Complete the table of values for the graph $y = -2x + 2$.

x	-2	-1	0	1	2
y	6	4	2	0	-2

b. Use the axes below to draw the graph of $y = -2x + 2$.

c. What is the gradient of the graph?

-2d. What is its y -intercept?**2**