LINE EQUATIONS

A DEFINITION

A.1 COMPLETING A TABLE OF VALUES

Ex 1: For $y = x + 3$, fill in the table:

x	-2	-1	0	1	2
y					

Ex 2: For $y = -2x + 1$, fill in the table:

x	-2	-1	0	1	2
y					

Ex 3: For $y = 3x - 5$, fill in the table:

x	-2	-1	0	1	2
y					

Ex 4: For $y = -2.5x - 2$, fill in the table:

x	-2	-1	0	1	2
y					

Ex 5: For $y = 0.5x + 1$, fill in the table:

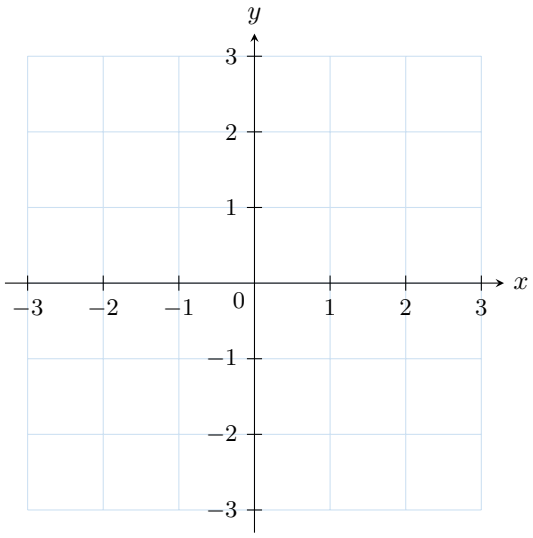
x	-2	-1	0	1	2
y					

A.2 GRAPHING A LINE FROM TWO POINTS

Ex 6: Here is a table of values for the line equation $y = x - 1$:

x	0	2
y	-1	1

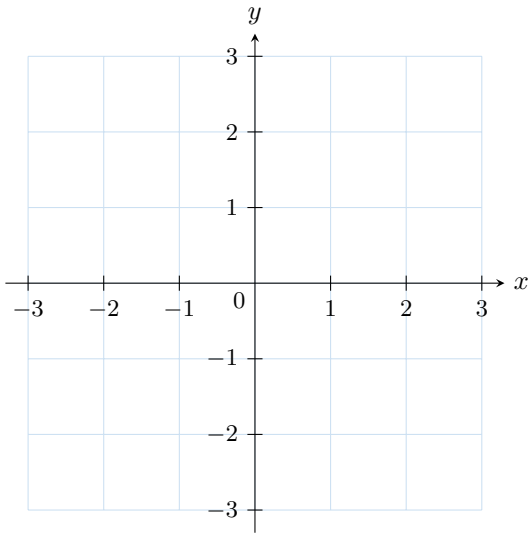
Plot the line.



Ex 7: Here is a table of values for the line equation $y = 0.5x + 1$:

x	0	2
y	1	2

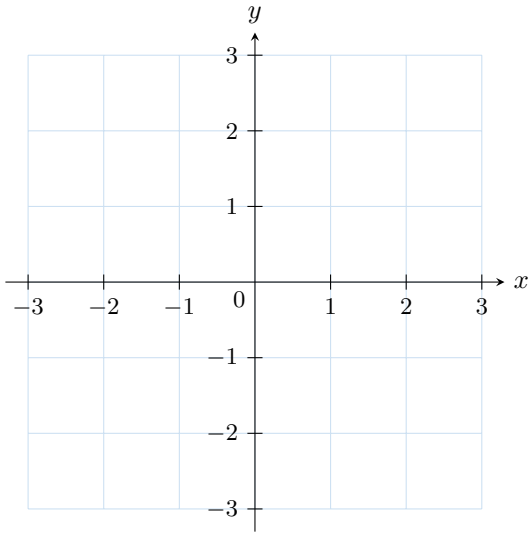
Plot the line.



Ex 8: Here is a table of values for the line equation $y = -2x + 2$:

x	0	2
y	2	-2

Plot the line.



A.3 FINDING COORDINATE POINTS

Ex 9: Find the coordinates of the point A on the line with the equation $y = 2x + 1$:

$$A(1, \square)$$

Ex 10: Find the coordinates of the point A on the line with the equation $y = -x + 2$:

$$A(1.5, \square)$$

Ex 11: Find the coordinates of the point A on the line with the equation $y = -2x + 1$:

$$A(-1, \square)$$

A.4 DETERMINING WHETHER A POINT IS ON A LINE

MCQ 12: Determine whether the point $(3, 6)$ lies on the line with the equation $y = 2x + 1$.

☐ Yes

☐ No

MCQ 13: Determine whether the point $(4, -3)$ lies on the line with the equation $y = -2x + 5$.

☐ Yes

☐ No

MCQ 14: Determine whether the point $(2, 2)$ lies on the line with the equation $y = x - 1$.

☐ Yes

☐ No

MCQ 15: Determine whether the point $(0, -2)$ lies on the line with the equation $y = 3x - 2$.

☐ Yes

☐ No