PLOTTING GRAPHS – PRACTICE QUESTIONS

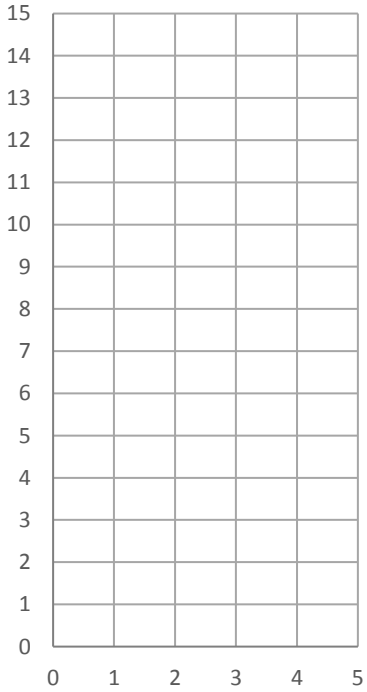
Name_____Period_____

1. Slope

(a) What is the gradient of the line y = 2x + 3 ?

(b) Complete the table below and then plot the line y = 2x + 3 for x = 0 to 5.

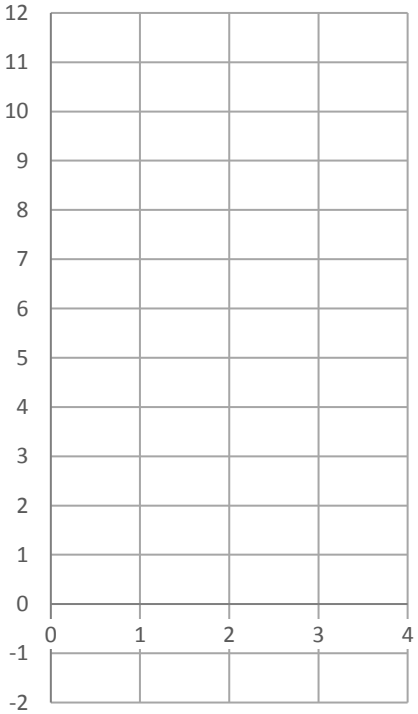
x	0	1	2	3	4	5
y	3		7			13



2.

Complete the table below and then plot the line y = 3x – 1 for x = 0 to 4.

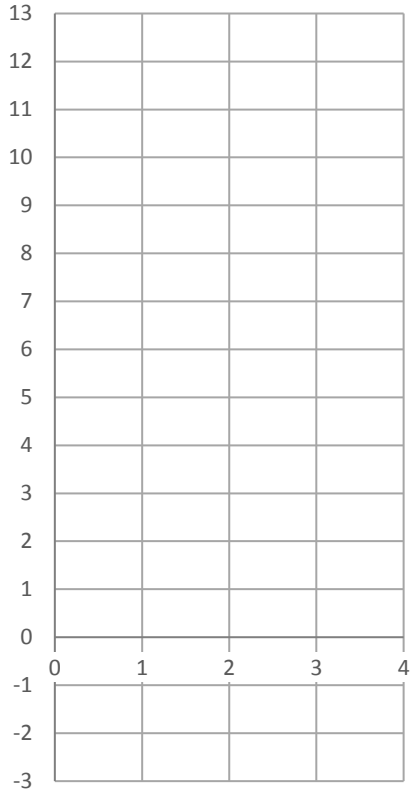
x	0	1	2	3	4
y					



3.

Complete the table below and then plot the line y = 4x - 3 for x = 0 to 4.

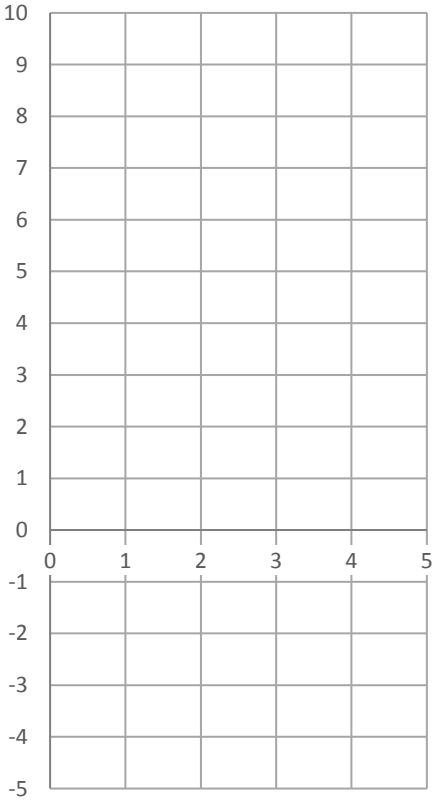
x	0	1	2	3	4
y					



4.

Complete the table below and then plot the line y = 10 – 3x for x = 0 to 5.

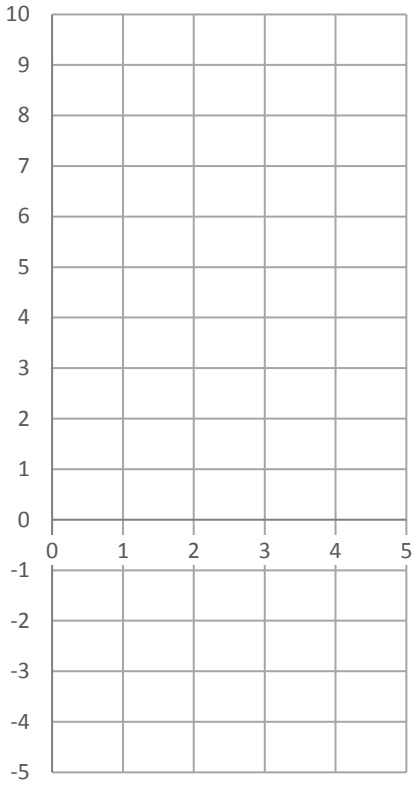
x	0	1	2	3	4	5
y						



5.

Complete the table below and then plot the line y = -2x + 7 for x = 0 to 5.

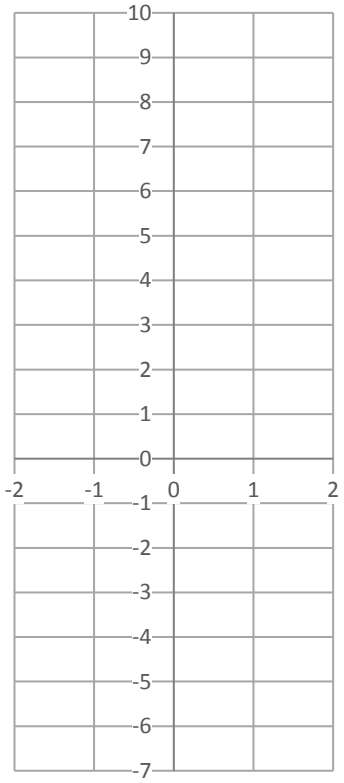
x	0	1	2	3	4	5
y						



6.

Complete the table below and then plot the line y = 4x + 1 for x = -2 to 2.

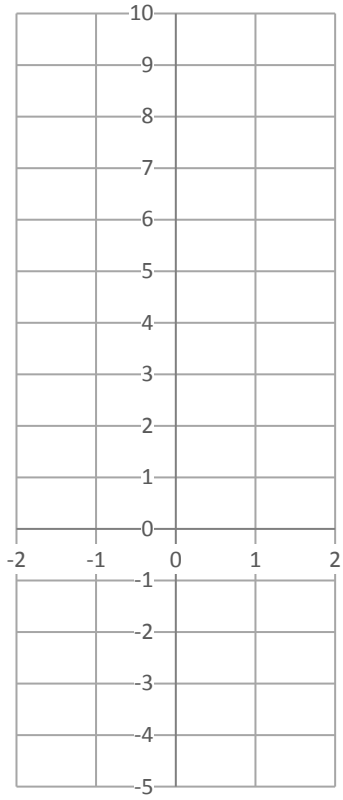
x	-2	-1	0	1	2
y					



7.

Complete the table below and then plot the line y = 3x + 2 for x = -2 to 2.

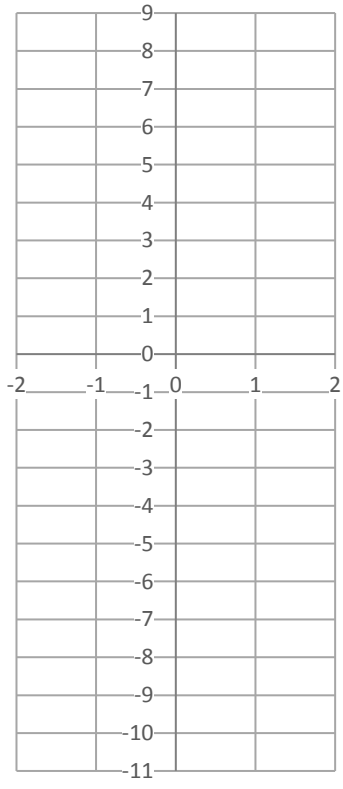
x	-2	-1	0	1	2
y					



8.

Complete the table below and then plot the line y = 5x – 1 for x = -2 to 2.

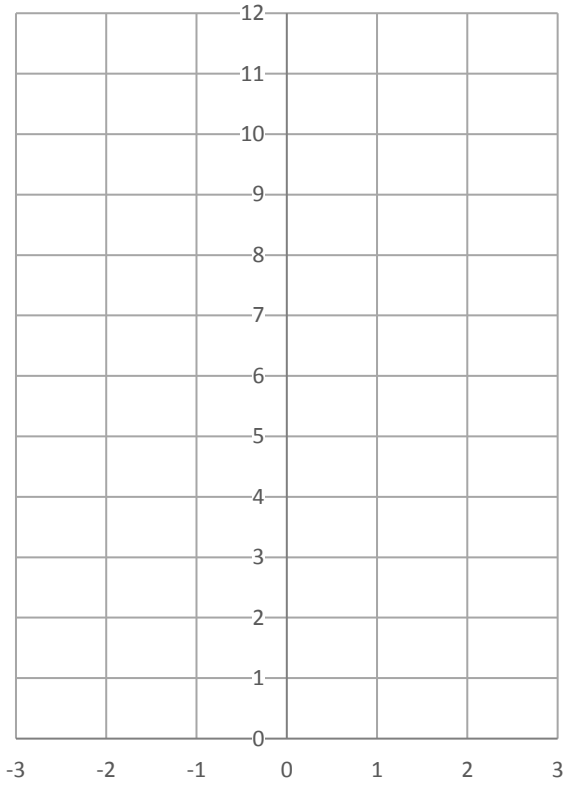
x	-2	-1	0	1	2
y					



9.

Complete the table below and then plot the curve $y = x^2 + 2$ for x = -3 to 3.

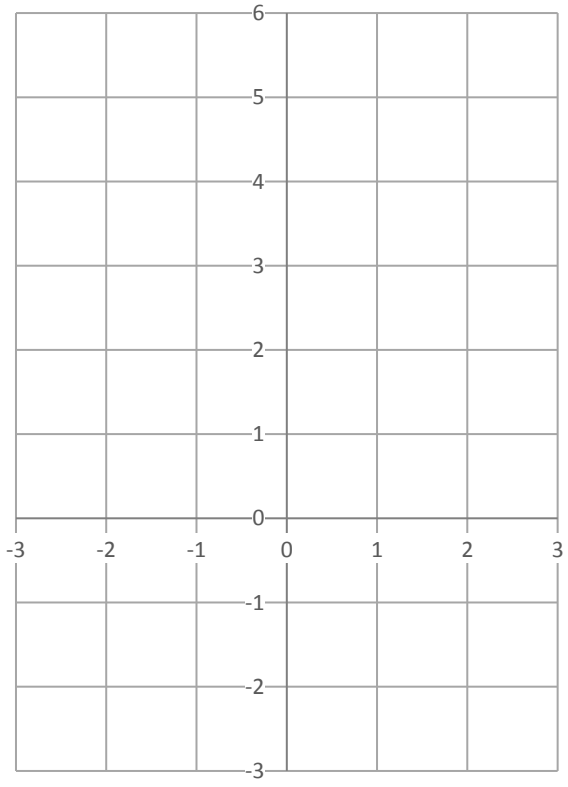
x	-3	-2	-1	0	1	2	3
y							



10.

Complete the table below and then plot the curve $y = x^2 - 3$ for x = -3 to 3.

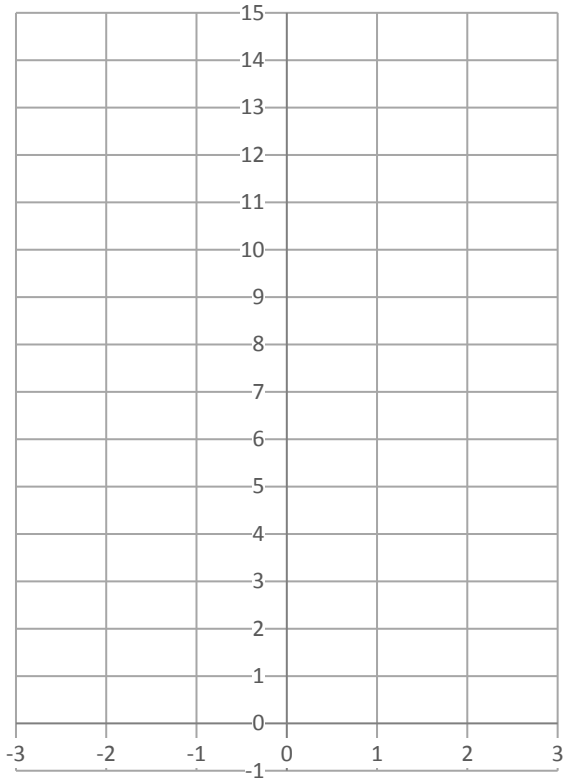
x	-3	-2	-1	0	1	2	3
y							



11.

Complete the table below and then plot the curve $y = x^2 - 2x$ for x = -3 to 3.

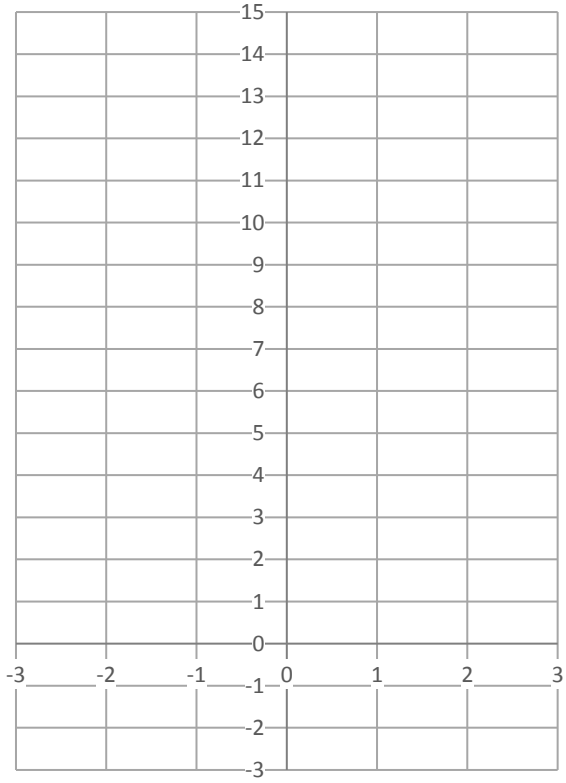
x	-3	-2	-1	0	1	2	3
y							



12.

Complete the table below and then plot the curve $y = x^2 + 2x - 1$ for x = -3 to 3.

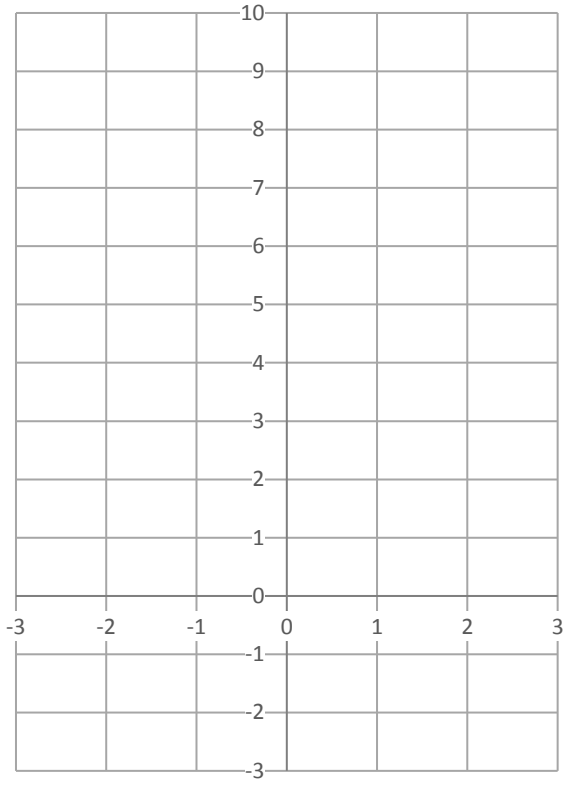
x	-3	-2	-1	0	1	2	3
y							



13.

Complete the table below and then plot the curve $y = x^2 + x - 2$ for x = -3 to 3.

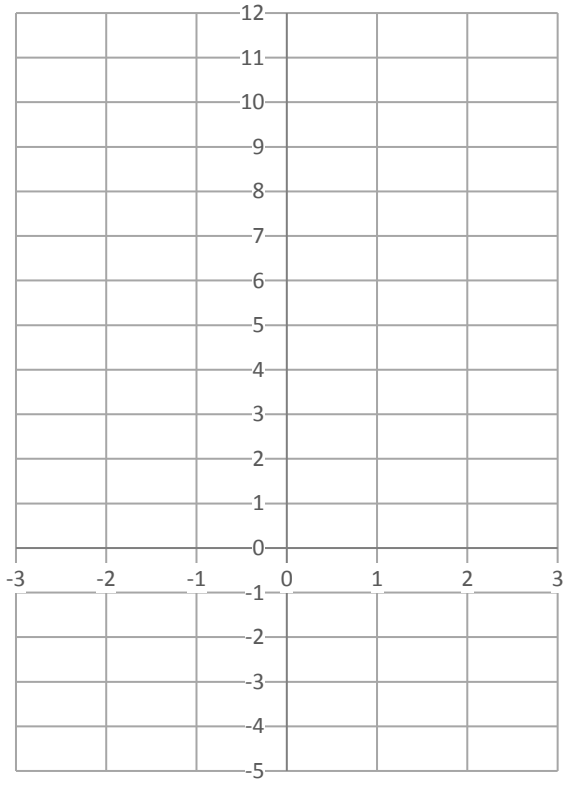
x	-3	-2	-1	0	1	2	3
y							



14.

Complete the table below and then plot the curve $y = x^2 - 2x - 3$ for x = -3 to 3.

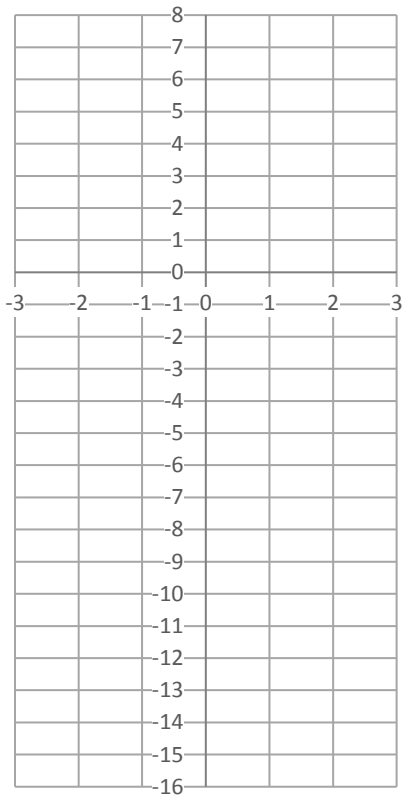
x	-3	-2	-1	0	1	2	3
y							



15.

Complete the table below and then plot the graph y = 4x – 4 for x = -3 to 3.

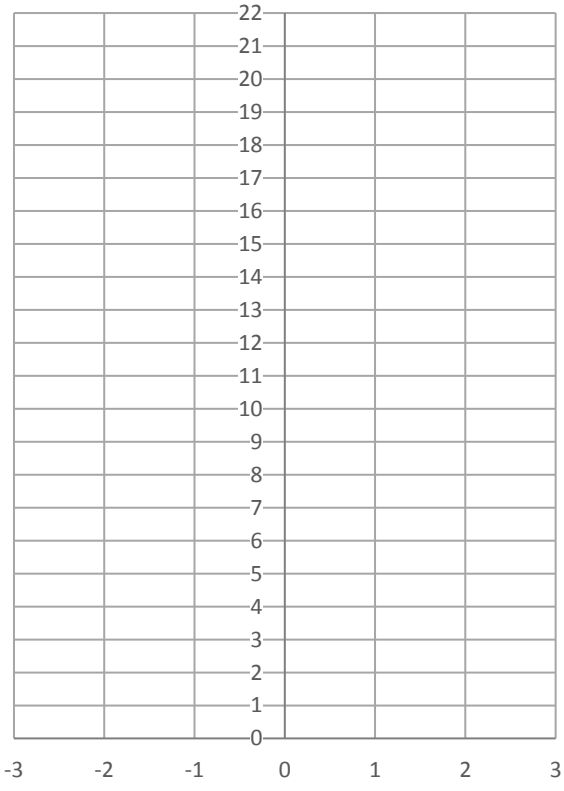
x	-3	-2	-1	0	1	2	3
y							



16.

Complete the table below and then plot the graph $y = x^2 – 3x + 4$ for x = -3 to 3.

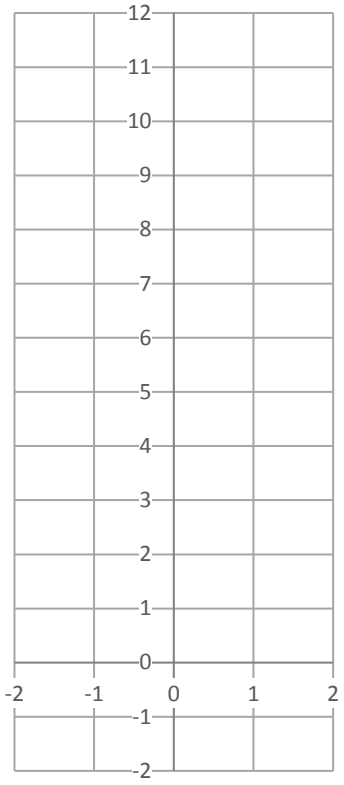
x	-3	-2	-1	0	1	2	3
y							



17.

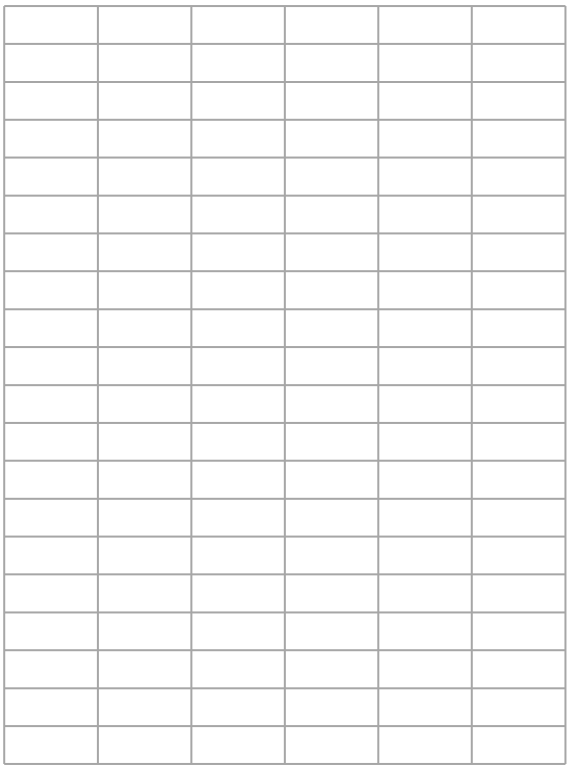
Complete the table below and then plot the graph y = 5 – 3x for x = -2 to 2.

x	-2	-1	0	1	2
y					

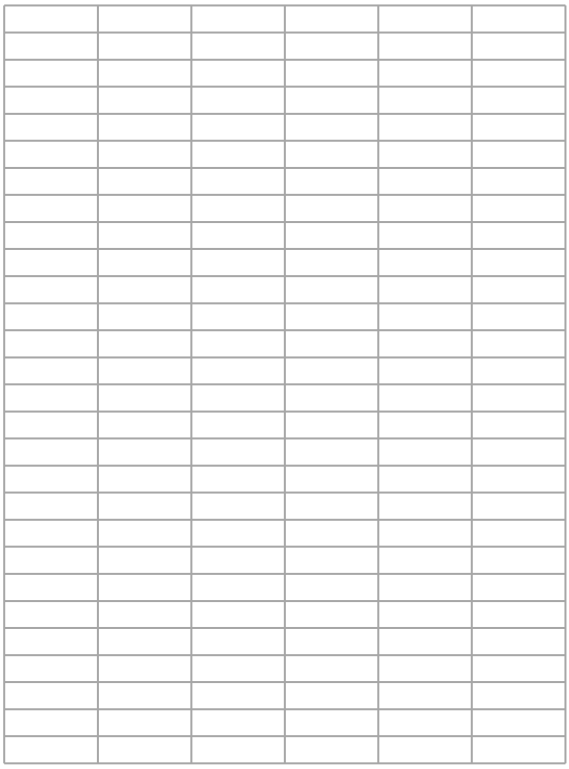


18.

Plot the graph y = 3x – 7 on the grid below for x = -3 to 3.



19.
Plot the graph $y = x^2 + 4x + 1$ on the grid below for x = -3 to 3.



20.
Plot the graph $y = 2x^2 – 2x – 5$ on the grid below for x = -3 to 3.