

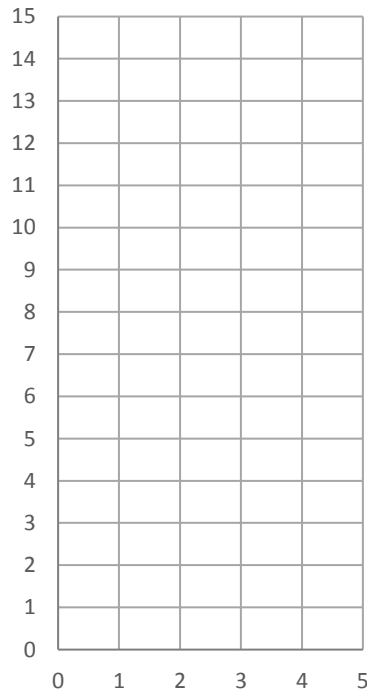
## PLOTTING GRAPHS – PRACTICE QUESTIONS



metatutor

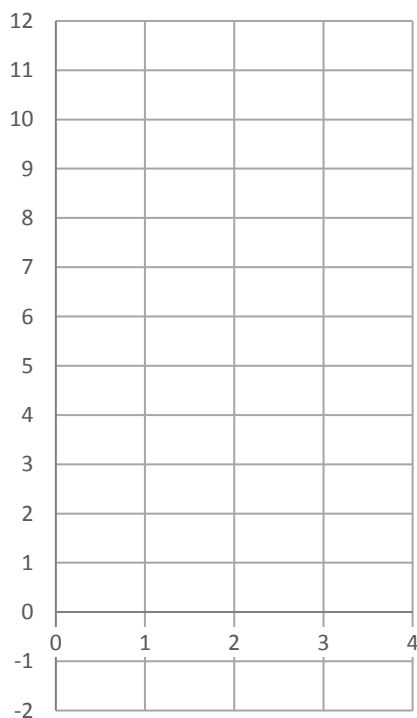
- 1.
- (a) What is the gradient of the line  $y = 2x + 3$  ?
- (b) Complete the table below and then plot the line  $y = 2x + 3$  for  $x = 0$  to 5.

|          |   |   |   |   |   |    |
|----------|---|---|---|---|---|----|
| <b>x</b> | 0 | 1 | 2 | 3 | 4 | 5  |
| <b>y</b> | 3 |   | 7 |   |   | 13 |



- 2.
- Complete the table below and then plot the line  $y = 3x - 1$  for  $x = 0$  to 4.

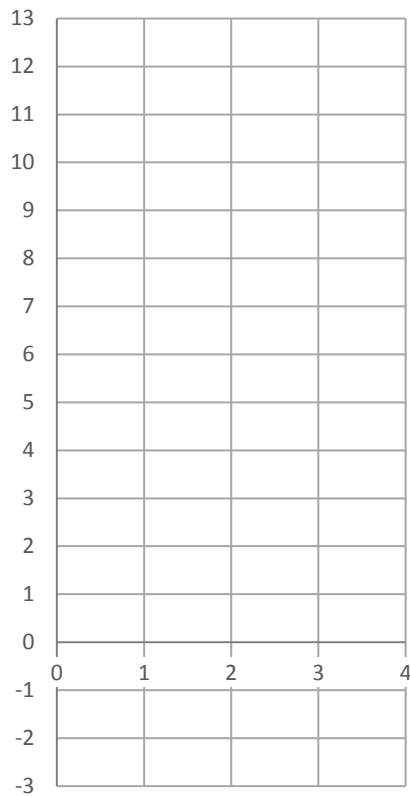
|          |   |   |   |   |   |
|----------|---|---|---|---|---|
| <b>x</b> | 0 | 1 | 2 | 3 | 4 |
| <b>y</b> |   |   |   |   |   |



3.

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

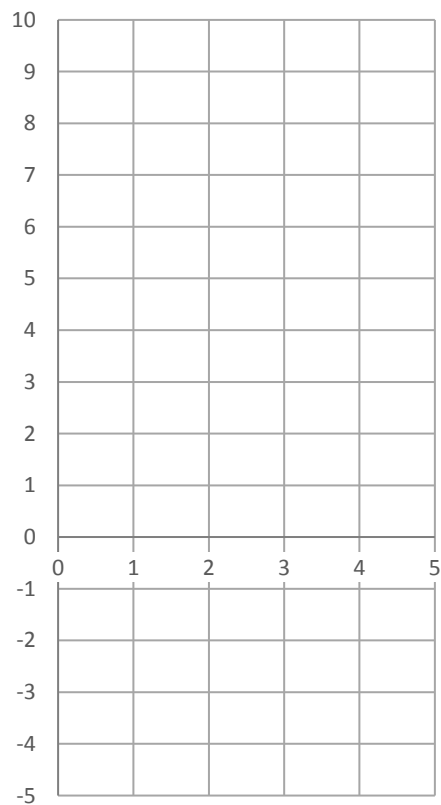
|          |   |   |   |   |   |
|----------|---|---|---|---|---|
| <b>x</b> | 0 | 1 | 2 | 3 | 4 |
| <b>y</b> |   |   |   |   |   |



4.

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

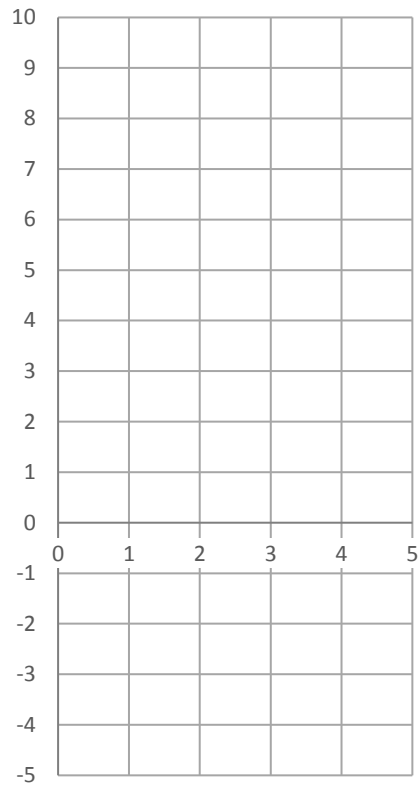
|          |   |   |   |   |   |   |
|----------|---|---|---|---|---|---|
| <b>x</b> | 0 | 1 | 2 | 3 | 4 | 5 |
| <b>y</b> |   |   |   |   |   |   |



5.

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

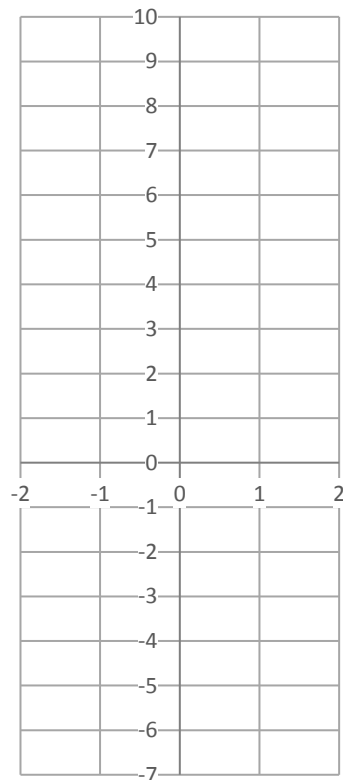
|          |   |   |   |   |   |   |
|----------|---|---|---|---|---|---|
| <b>x</b> | 0 | 1 | 2 | 3 | 4 | 5 |
| <b>y</b> |   |   |   |   |   |   |



6.

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

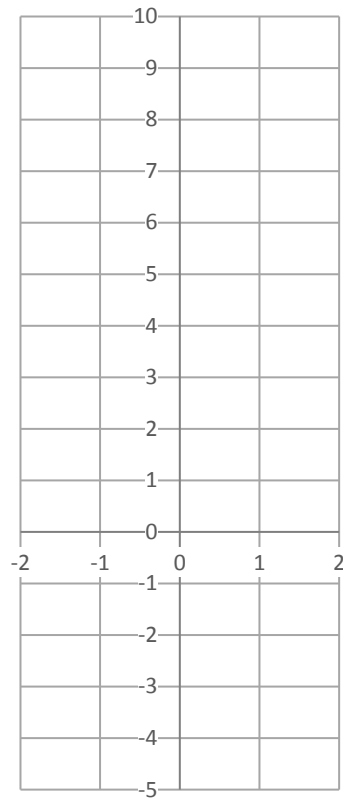
|          |    |    |   |   |   |
|----------|----|----|---|---|---|
| <b>x</b> | -2 | -1 | 0 | 1 | 2 |
| <b>y</b> |    |    |   |   |   |



7.

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

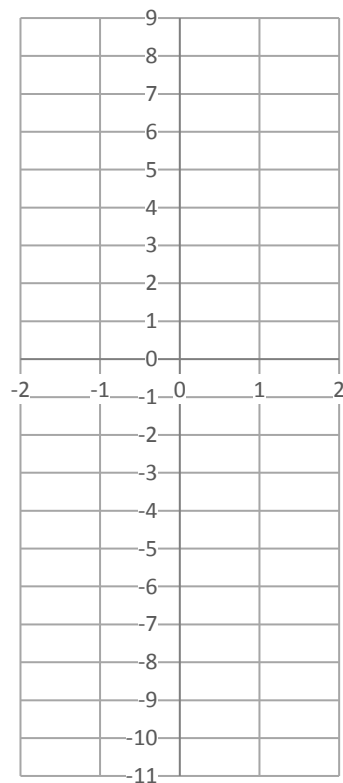
|          |    |    |   |   |   |
|----------|----|----|---|---|---|
| <b>x</b> | -2 | -1 | 0 | 1 | 2 |
| <b>y</b> |    |    |   |   |   |



8.

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

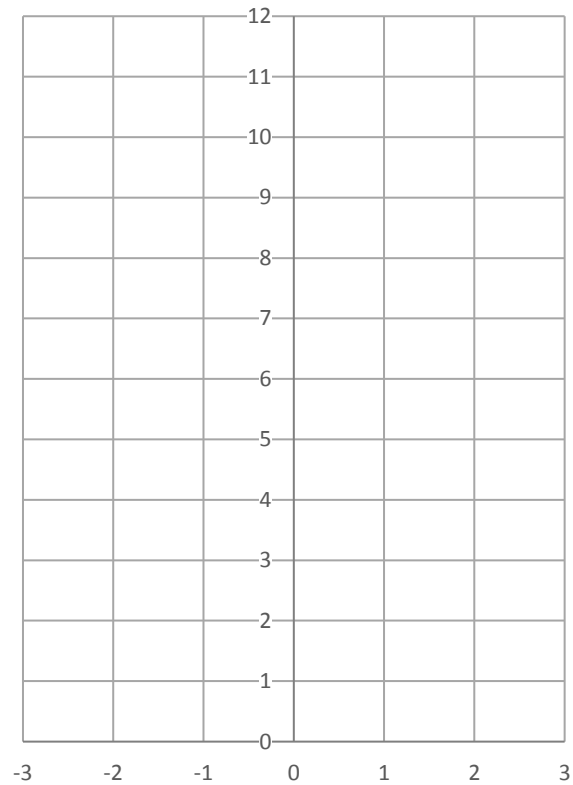
|          |    |    |   |   |   |
|----------|----|----|---|---|---|
| <b>x</b> | -2 | -1 | 0 | 1 | 2 |
| <b>y</b> |    |    |   |   |   |



9.

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

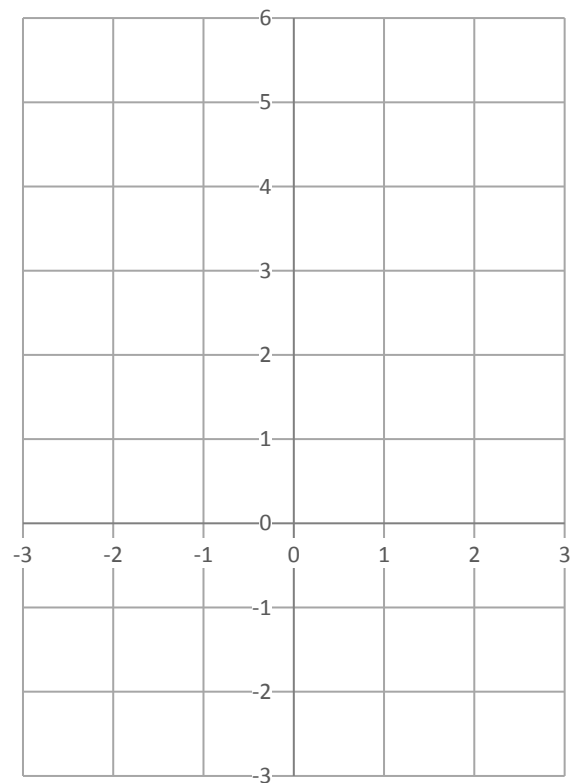
|          |    |    |    |   |   |   |   |
|----------|----|----|----|---|---|---|---|
| <b>x</b> | -3 | -2 | -1 | 0 | 1 | 2 | 3 |
| <b>y</b> |    |    |    |   |   |   |   |



10.

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

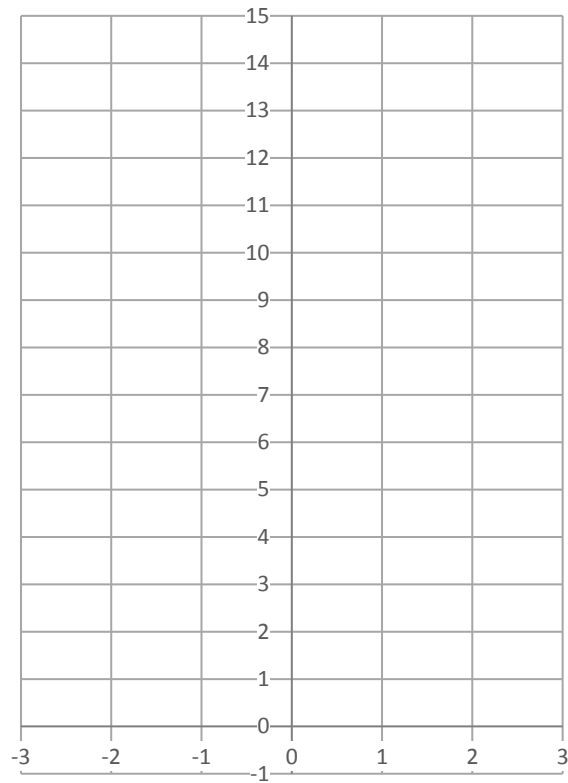
|          |    |    |    |   |   |   |   |
|----------|----|----|----|---|---|---|---|
| <b>x</b> | -3 | -2 | -1 | 0 | 1 | 2 | 3 |
| <b>y</b> |    |    |    |   |   |   |   |



11.

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

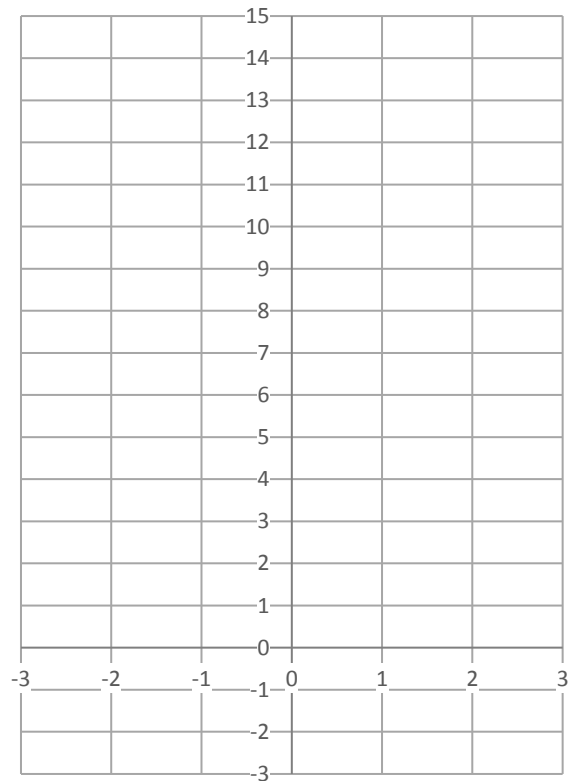
|          |    |    |    |   |   |   |   |
|----------|----|----|----|---|---|---|---|
| <b>x</b> | -3 | -2 | -1 | 0 | 1 | 2 | 3 |
| <b>y</b> |    |    |    |   |   |   |   |



12.

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

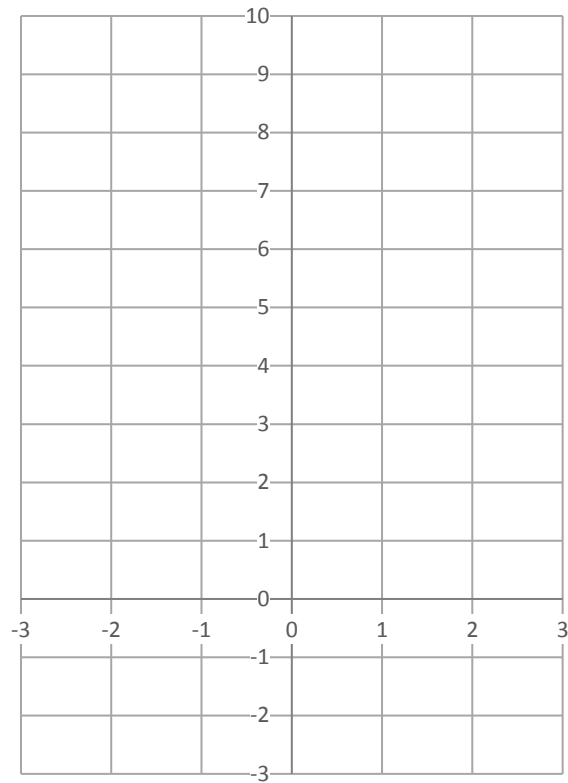
|          |    |    |    |   |   |   |   |
|----------|----|----|----|---|---|---|---|
| <b>x</b> | -3 | -2 | -1 | 0 | 1 | 2 | 3 |
| <b>y</b> |    |    |    |   |   |   |   |



13.

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

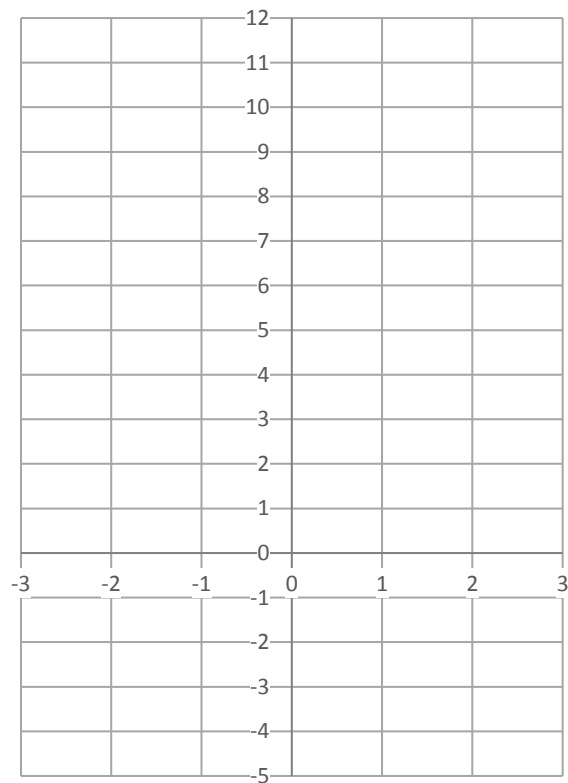
|          |    |    |    |   |   |   |   |
|----------|----|----|----|---|---|---|---|
| <b>x</b> | -3 | -2 | -1 | 0 | 1 | 2 | 3 |
| <b>y</b> |    |    |    |   |   |   |   |



14.

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

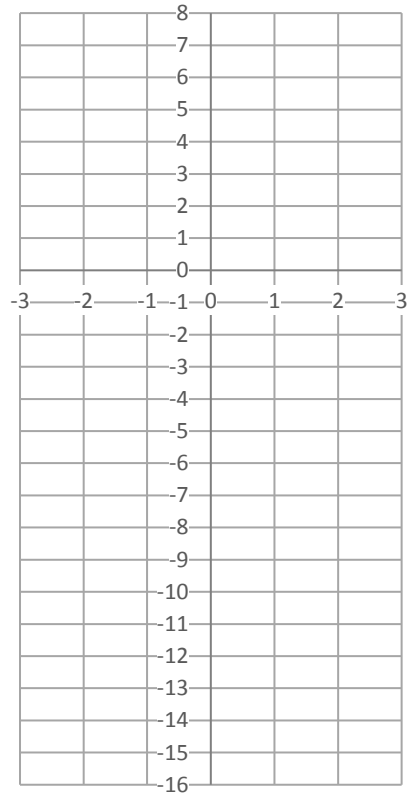
|          |    |    |    |   |   |   |   |
|----------|----|----|----|---|---|---|---|
| <b>x</b> | -3 | -2 | -1 | 0 | 1 | 2 | 3 |
| <b>y</b> |    |    |    |   |   |   |   |



15.

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

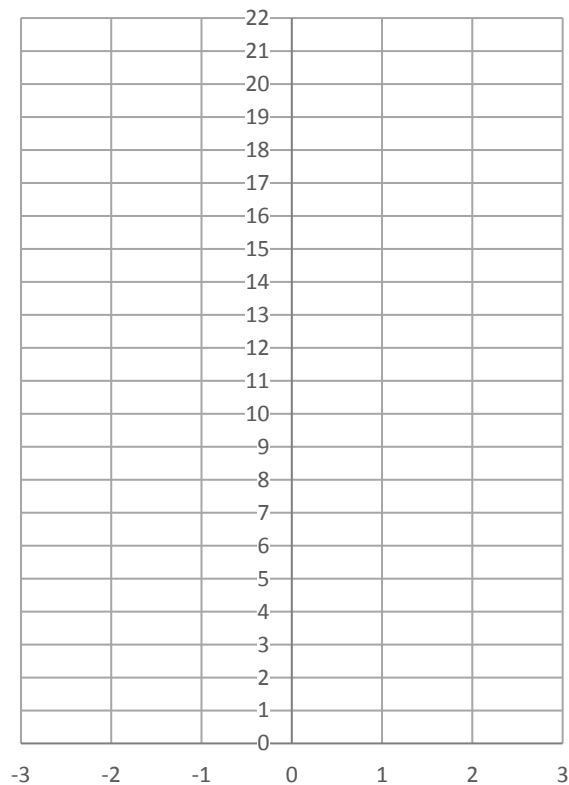
|          |    |    |    |   |   |   |   |
|----------|----|----|----|---|---|---|---|
| <b>x</b> | -3 | -2 | -1 | 0 | 1 | 2 | 3 |
| <b>y</b> |    |    |    |   |   |   |   |



16.

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

|          |    |    |    |   |   |   |   |
|----------|----|----|----|---|---|---|---|
| <b>x</b> | -3 | -2 | -1 | 0 | 1 | 2 | 3 |
| <b>y</b> |    |    |    |   |   |   |   |

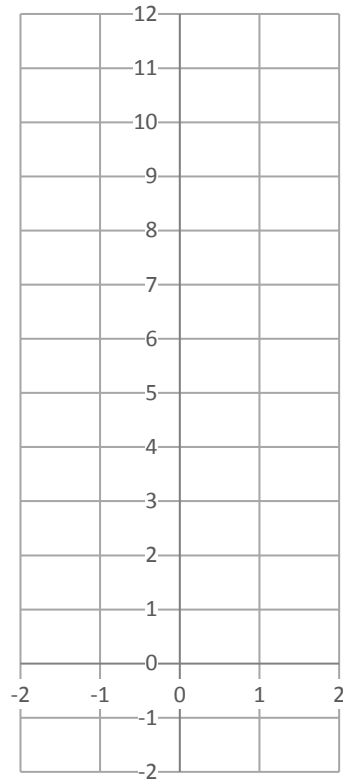




17.

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

|          |    |    |   |   |   |
|----------|----|----|---|---|---|
| <b>x</b> | -2 | -1 | 0 | 1 | 2 |
| <b>y</b> |    |    |   |   |   |



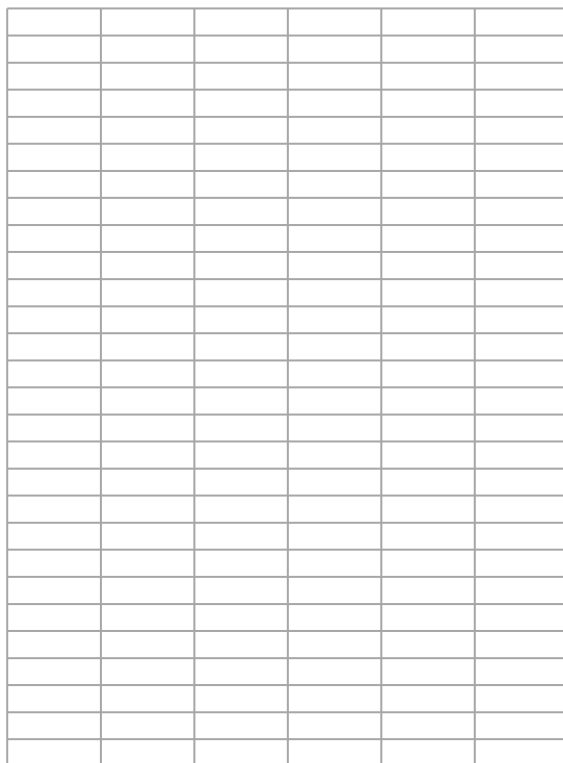
18.

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  $3$ .

