

**Draw graphs of the form  $y = mx + c$  by using a table of values.**

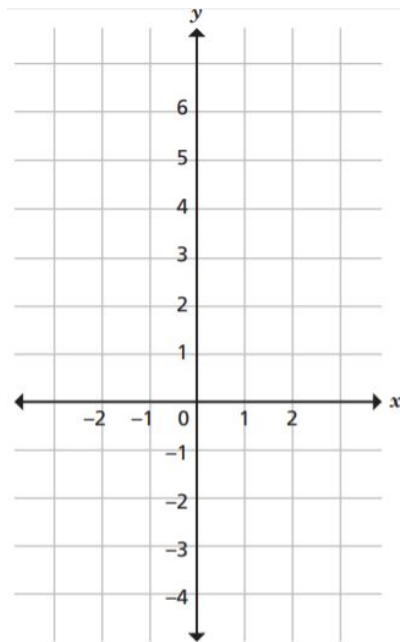


## Draw graphs of the form $y = mx + c$ by using a table of values.

1. a) Complete the table of values for  $y = 2x + 1$

|     |    |    |   |   |   |
|-----|----|----|---|---|---|
| $x$ | -2 | -1 | 0 | 1 | 2 |
| $y$ |    |    |   |   |   |

b) Draw the graph of  $y = 2x + 1$  for values of  $x$  from  $x = -2$  to  $x = 2$



## Draw graphs of the form $y = mx + c$ by using a table of values.

2. Here are three tables of values for the lines P, Q and R.

a) Complete the tables

**P**  $y = 3x + 4$

|     |    |    |   |   |   |
|-----|----|----|---|---|---|
| $x$ | -2 | -1 | 0 | 1 | 2 |
| $y$ |    |    |   |   |   |

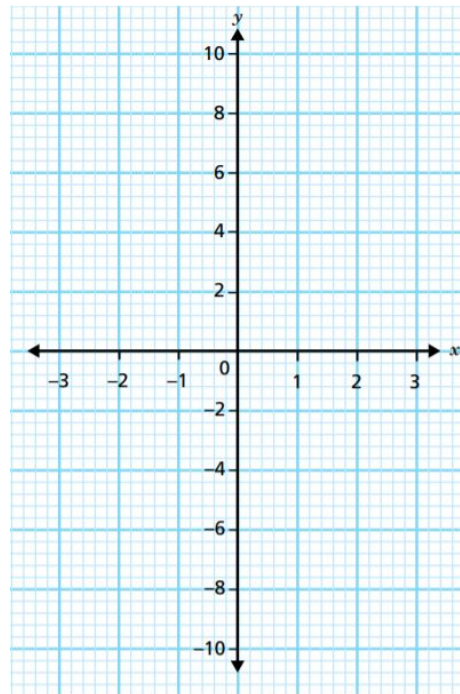
**Q**  $y = -x + 2$

|     |    |    |   |   |   |
|-----|----|----|---|---|---|
| $x$ | -2 | -1 | 0 | 1 | 2 |
| $y$ |    |    |   |   |   |

**R**  $y = 0.5x - 3$

|     |    |    |   |   |   |
|-----|----|----|---|---|---|
| $x$ | -2 | -1 | 0 | 1 | 2 |
| $y$ |    |    |   |   |   |

b) Plot and label lines P, Q and R



# Answers

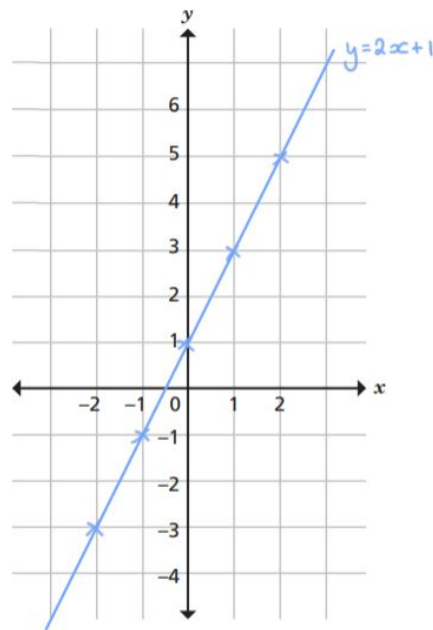


## Draw graphs of the form $y = mx + c$ by using a table of values.

1. a) Complete the table of values for  $y = 2x + 1$

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

b) Draw the graph of  $y = 2x + 1$  for values of  $x$  from  $x = -2$  to  $x = 2$



## Draw graphs of the form $y = mx + c$ by using a table of values.

2. Here are three tables of values for the lines P, Q and R.

a) Complete the tables

**P**  $y = 3x + 4$

|     |    |    |   |   |    |
|-----|----|----|---|---|----|
| $x$ | -2 | -1 | 0 | 1 | 2  |
| $y$ | -2 | 1  | 4 | 7 | 10 |

**Q**  $y = -x + 2$

|     |    |    |   |   |   |
|-----|----|----|---|---|---|
| $x$ | -2 | -1 | 0 | 1 | 2 |
| $y$ | 4  | 3  | 2 | 1 | 0 |

**R**  $y = 0.5x - 3$

|     |    |      |    |      |    |
|-----|----|------|----|------|----|
| $x$ | -2 | -1   | 0  | 1    | 2  |
| $y$ | -4 | -3.5 | -3 | -2.5 | -2 |

b) Plot and label lines P, Q and R

