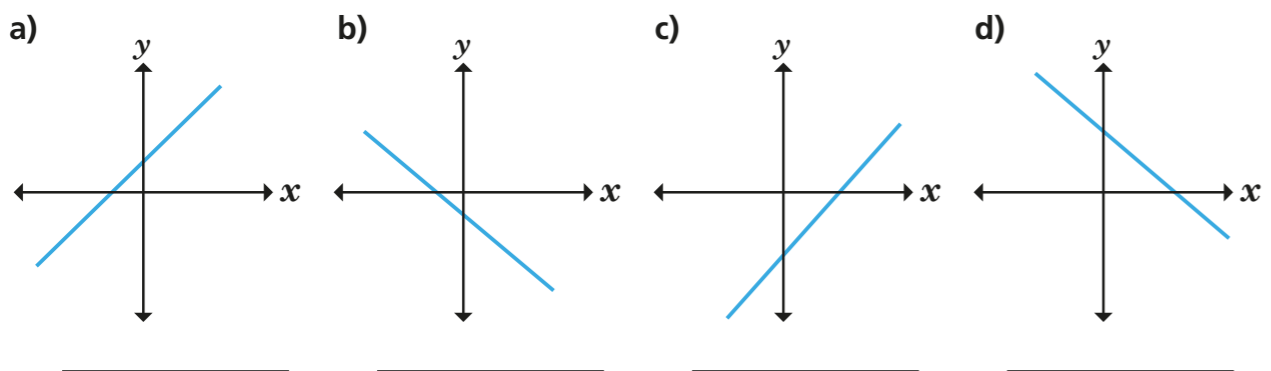


Find the equation of a straight line from a graph (1)

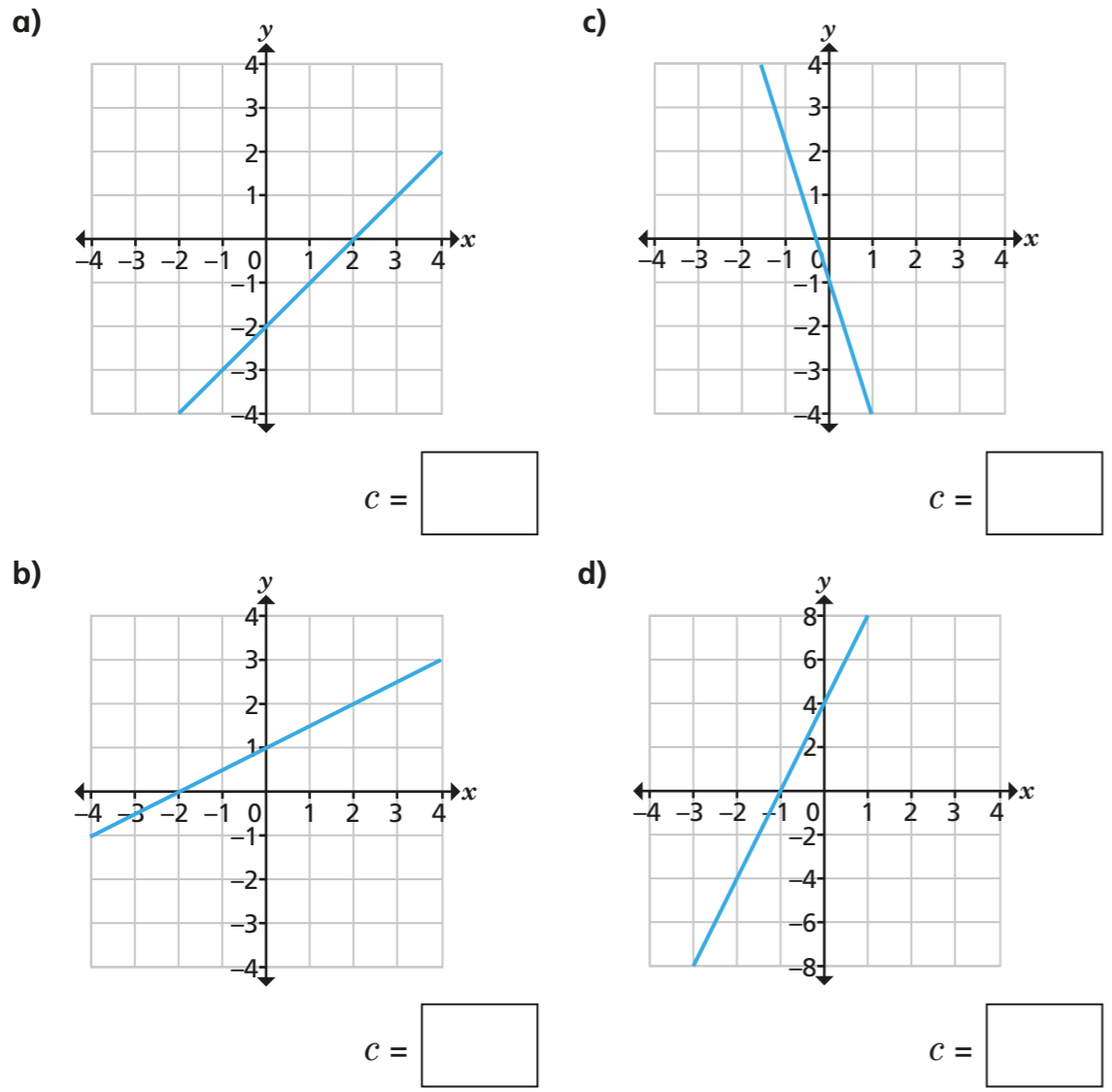
R

1 Are the y-intercepts of the lines positive or negative?

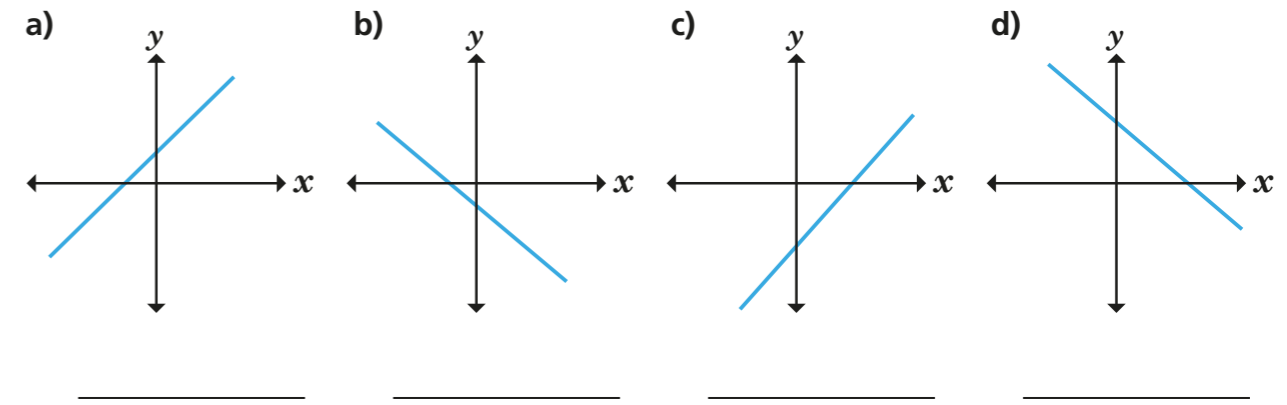


How do you know?

2 What are the y-intercepts of the lines?

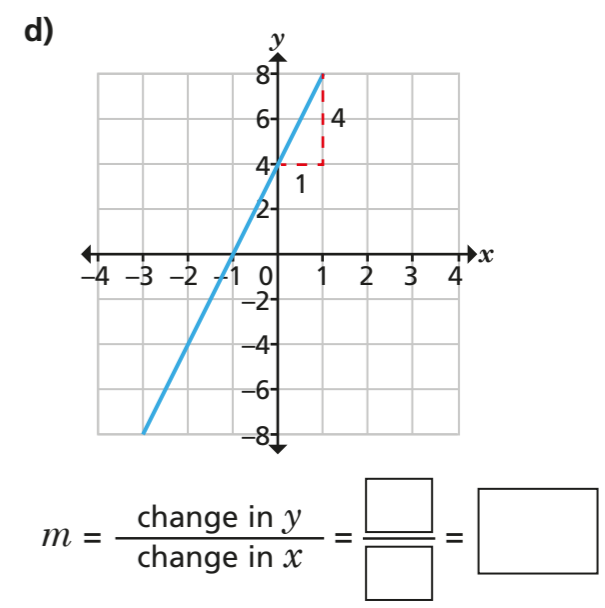
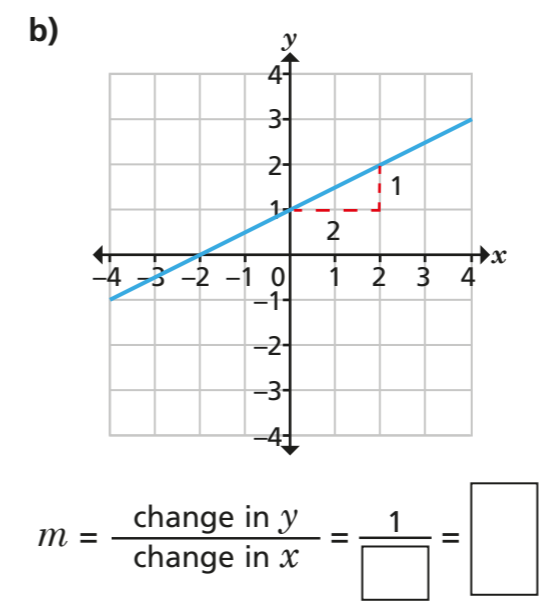
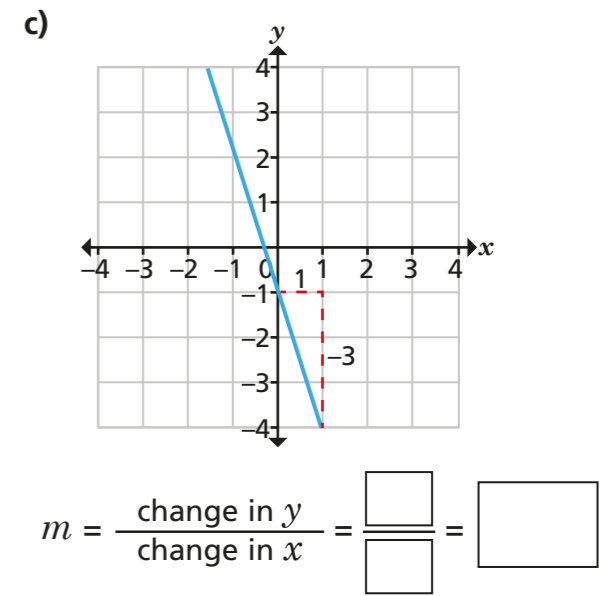
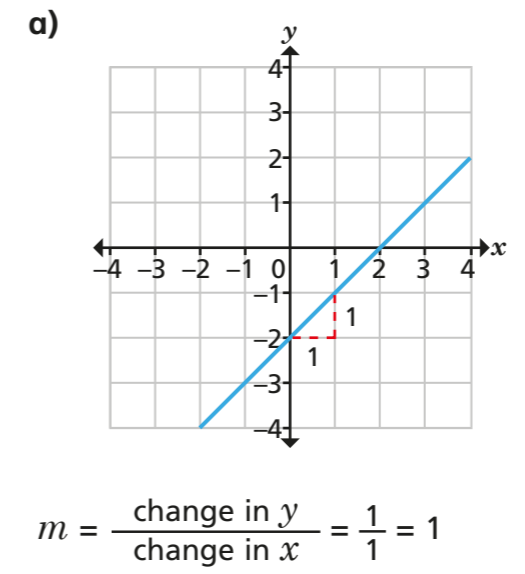


3 Are the gradients of the lines positive or negative?



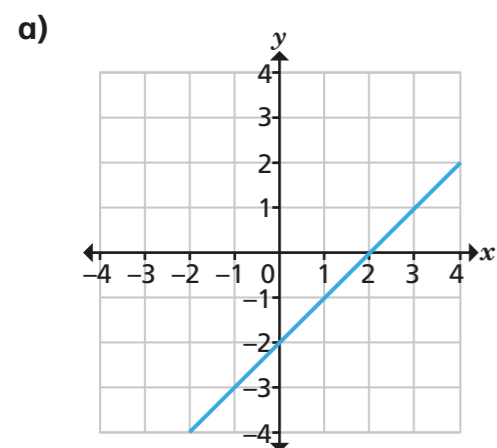
How do you know?

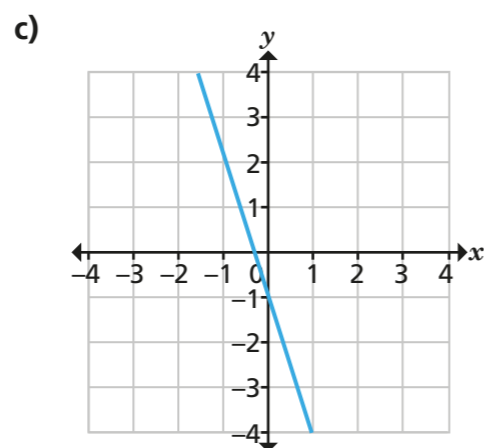
4 What are the gradients of the lines? The first one has been done for you.

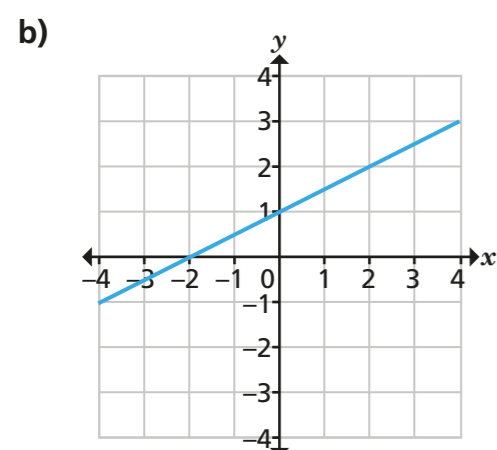


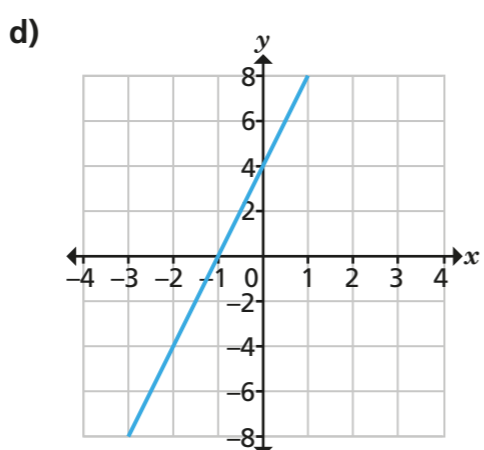
5 What are the equations of the lines? Give your answers in the form $y = mx + c$.

Use your answers to questions 2 and 4 to help you.

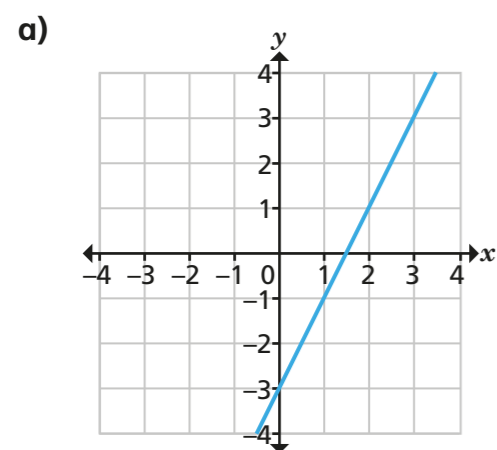


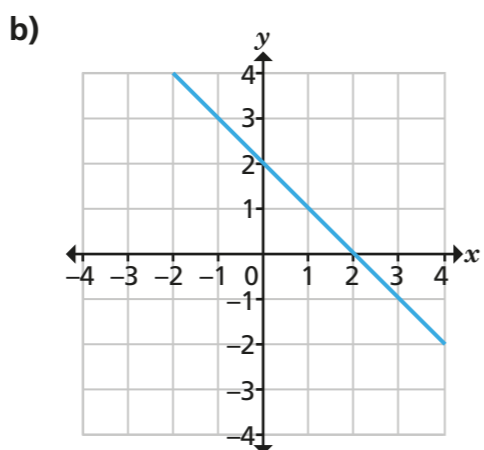




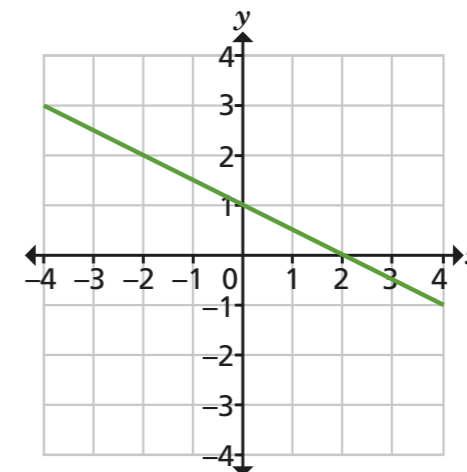


6 Work out the equations of the lines. Give your answers in the form $y = mx + c$.





7 The graph shows a straight line, L_1 .



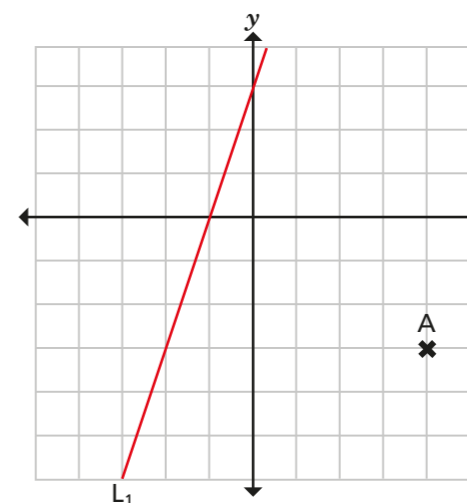
a) What is the equation of L_1 ? _____

b) A second line, L_2 , is parallel to L_1 and passes through the point $(0, -3)$.

Draw L_2 on the graph.

c) What is the equation of L_2 ? _____

8 The graph shows a straight line, L_1 .



The coordinates of point A are $(4, -6)$.

What is the equation of L_1 ? _____