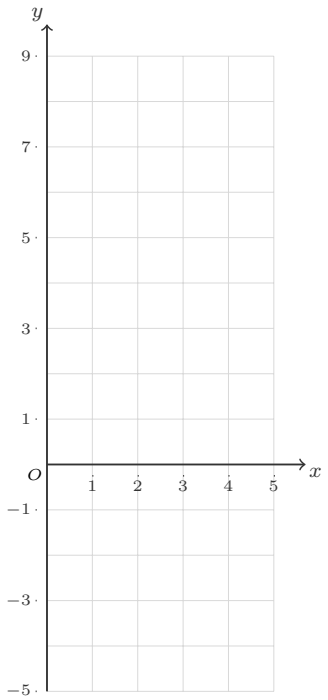
1 Complete a table for each of $y = 2x - 3$, $y = 2x$ and $y = 2x + 2$, taking $x = 0, 1, 2, 3$. Plot all three on the one grid and label each line.



(8 marks)

2 Look at your three lines from question 1.

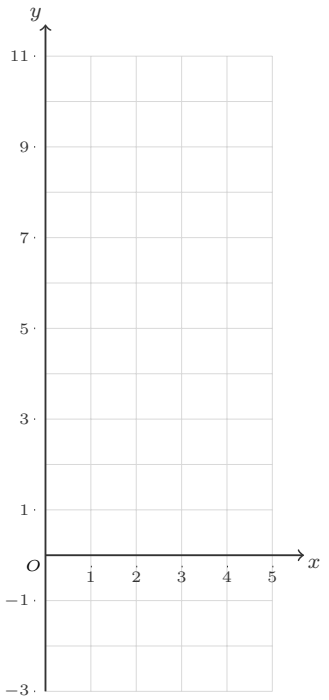
(a) What do the three lines have in common? (2)

(b) Write down where each one crosses the y-axis (2)

(c) What do you notice about your answers to (b) and the functions? (2)

(6 marks)

3 Complete a table for each of $y = x + 1$, $y = 3x + 1$ and $y = 1 - x$, taking $x = 0, 1, 2, 3$. Plot all three on the one grid.



(8 marks)

4 Look at your three lines from question 3.

(a) What do all three have in common? (2)

(b) Which line is the steepest, and what is its value of m? (2)

(c) One line slopes downwards. Write down its value of m and say what a negative m does to a line (2)

(6 marks)

5 A function is $y = x^2 + 1$.

(a) Complete the table for $x = 0, 1, 2, 3$ (1)

(b) Work out the difference between consecutive values of y (1)

(c) Explain why this function is not linear (2)

(4 marks)