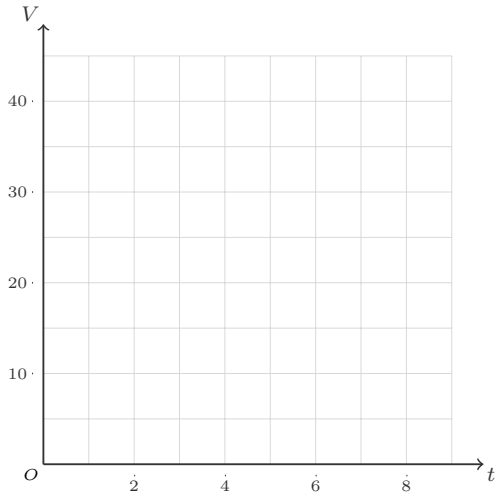
1 A water tank holds 40 litres and drains at 5 litres a minute. The volume V litres after t minutes is $V = 40 - 5t$.

(a) $t = 0, 2, 4, 6, 8$: write the five values of V (2)

(b) Draw the graph. **Label both axes and the line.** (5)



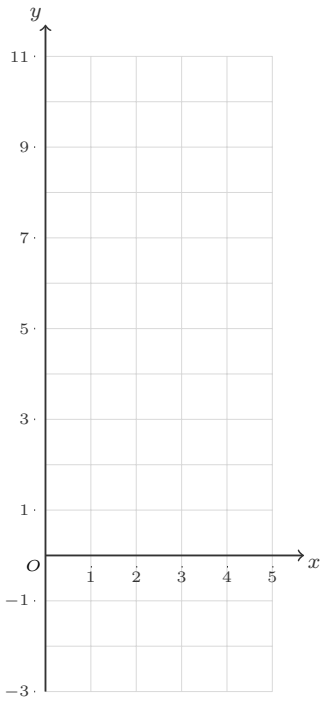
(c) Use the graph to find the volume after 5 minutes (1)

(d) Use the graph to find when the volume is 25 litres (1)

(e) Explain why the graph is not drawn beyond $t = 8$ (2)

(11 marks)

2 Draw all three lines on the one grid and label each with its equation.



(a) $y = x + 2$ (2)

(b) $y = 2x + 2$ (2)

(c) $y = 2$ (2)

(d) Write down one thing all three lines have in common (2)

(8 marks)

3 Complete the table for $y = 4x + 3$ and plot the points. **The grid has no numbers on it – choose your own scale and mark it.**

(a) $x = 0, 1, 2, 3$: write the four values of y (2)

(b) Mark the scale on both axes, plot, and rule the line (5)

(7 marks)