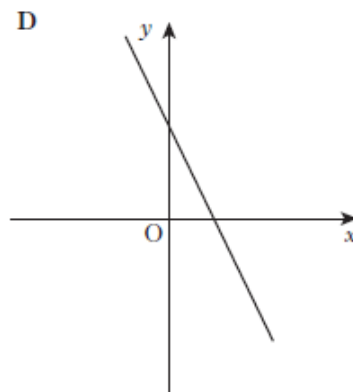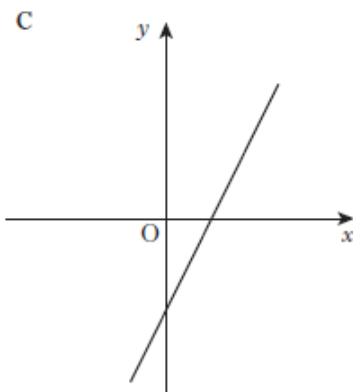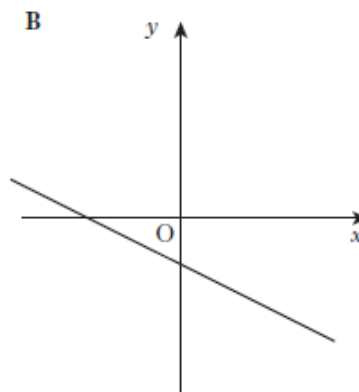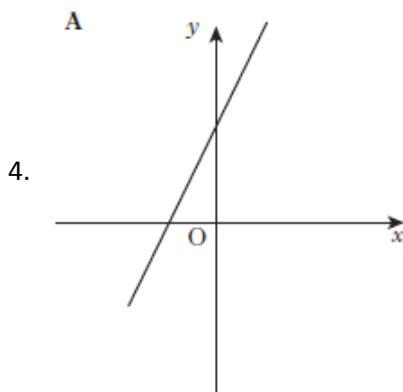# National 5 Home Ex 5

1. Find the equation of the line passing through the points A(1, 4) and B(3, 10)

2. Find the equation of the straight line which is parallel to the line with equation $2x + 3y = 5$ and which passes through the point $(2, -1)$.

3. The points A and B have coordinates (a, a^2) and $(2b, 4b^2)$ respectively. Determine the gradient of AB in its simplest form.

4. Four straight line graphs are shown below.

4.

Which one of these above could represent the line with equation $2x + y = 3$?

Give two reasons to justify your answer.

A line makes an angle of 30° with the positive direction of the x-axis as shown.