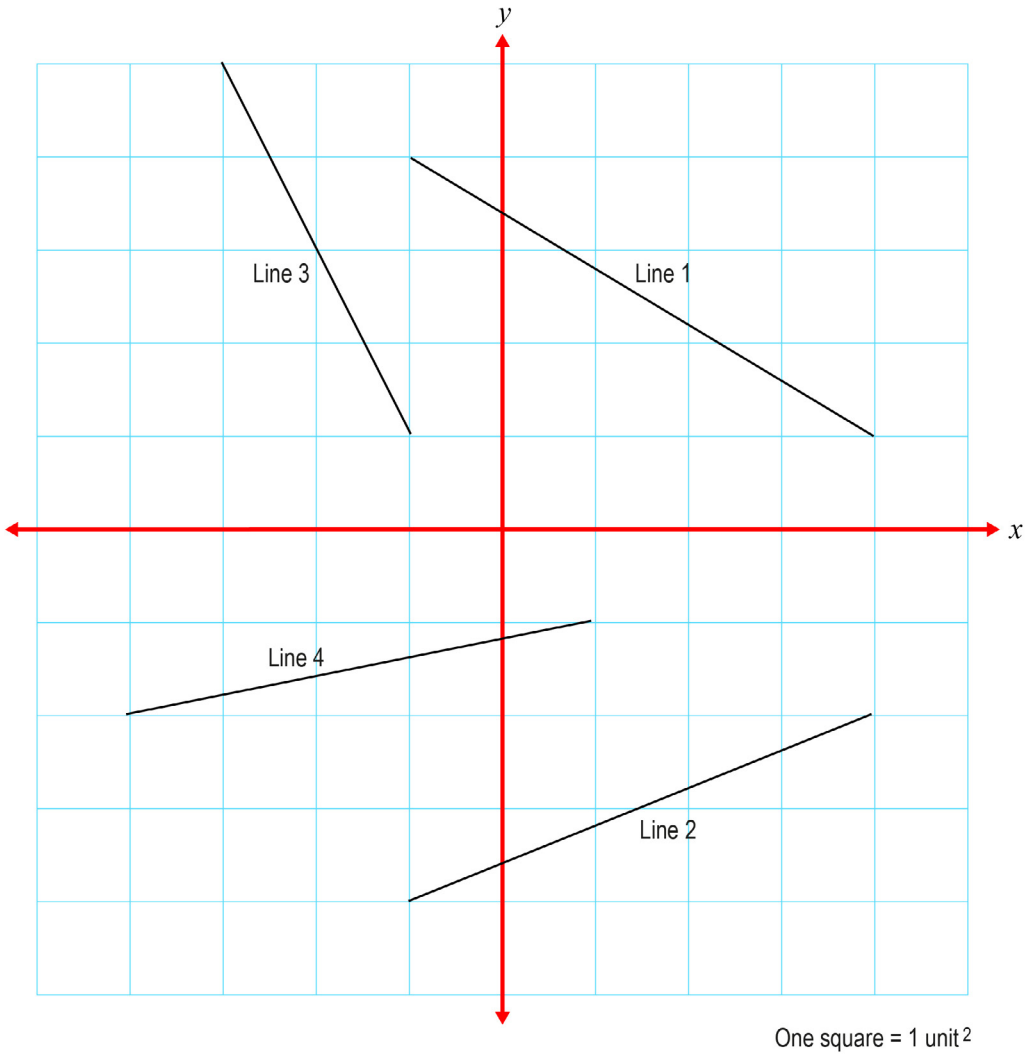
Sheet 7

How steep is it?



1. Consider the lines on the axes above. Without calculating:

   a. Identify the lines that have positive gradients. Explain how you know this.

   b. Identify the lines that have negative gradients. Explain how you know this.

   c. List the order of 'steepness' of the lines from least steep to most steep.

2. Calculate the gradient of each line. Show clearly how you are obtaining your solutions.

3. Consider the values you obtained for the gradients of each line in Question 2. Does this correspond to your initial answers for Question 1c?

4. Use the formula, $\left(\frac{y_2 - y_1}{x_2 - x_1}\right)$ to find the gradient of the lines drawn between the following:

   a. (–5, 1) and (5, –4)

   b. (–4, –3) and (–1, 6)

   c. (1, 3) and (–1, 0)