Lower 6 Chapter 5

Linear Graphs

Chapter Overview

1.

2. Parallel and perpendicular lines

3. Lengths and Areas

4. Modelling



1. Linear Graphs

Examples:

1. The point lies on the line with equation . Determine the value of .

2. Find the coordinate of the point where the line cuts the -axis.

Test Your Understanding:

Determine where the line crosses both the axes

Gradient

Examples:

Find the gradient of the line between the following sets of points:

1.

2.

3.

4. Show that the points all lie on a straight line.

5. The line joining to has gradient -1. Work out the value of .

Example:

Determine the gradient and -intercept of the line with equation

Example

Express in the form , where are integers.

Test Your Understanding

Express in the form , where are integers.

Exercise 5A/B Page 90-93