

## 5 Algebra 2

In this unit you will:

- learn how to change the subject of a formula
- learn how to solve inequalities and represent them as regions on a graph
- solve problems in direct and indirect proportion
- identify and plot curved graphs
- use graphs to solve equations.

Functional skills coverage and range:

- Understand, use, and calculate ratio and proportion, including problems involving scale
- Understand and use simple equations and simple formulae involving one- or two-step operations.

### Links

If you have an idea of the shape of a graph then you can model a situation to find out the exact equation, for example, how fast a radioactive isotope is decaying. This could tell you exactly what the isotope is.

### 5.1 Changing the subject of a formula

The operations that you use in solving ordinary linear equations are exactly the same as the operations you need to change the subject of a formula.

#### 5.1.1 Simple formulae

##### EXAMPLE

Make  $x$  the subject in these formulae.

**a**  $ax - p = t$

**b**  $y(x + y) = v^2$

**a**  $ax - p = t$

$$ax = t + p$$

$$x = \frac{t + p}{a}$$

**b**  $y(x + y) = v^2$

$$yx + y^2 = v^2$$

$$yx = v^2 - y^2$$

$$x = \frac{v^2 - y^2}{y}$$

#### Exercise 1

Make  $x$  the subject.

**1**  $x + b = c$

**2**  $x - t = m$

**3**  $x - f = a + b$

**4**  $x + h = A + B$

**5**  $x + t = y + z$

**6**  $a + x = b$

**7**  $k + x = m$

**8**  $v + x = w + y$

**9**  $ax = b$

# Ace The Shapes Of Algebra Answers

**Terry C. Jones**



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