

## 6.1 Key Concepts 4 Graphs of Direct Variation Worked Example

**Example:** Find an equation to model the variation shown.

$x$	$y$
2	5.0
5	12.5
11	27.5
20	50.0

**Solution:** Check that the variation is direct by calculating the ratio  $\frac{y}{x}$  for each entry. This turns out to be 2.5 in each case. The equation is  $y = 2.5x$ .

**Practice:**

1. Find an equation to model the variation shown.

$x$	$y$
1	1.2
3	3.6
7	8.4
10	12.0

2. Find an equation to model the variation shown.

$x$	$y$
3	2.1
9	6.3
15	10.5
23	16.1

Answers: 1.  $y = 1.2x$ . 2.  $y = 0.7x$ .