



C is directly proportional to the square root of W.

$$C \propto \sqrt{W}$$

When $C = 12$ and $W = 16$

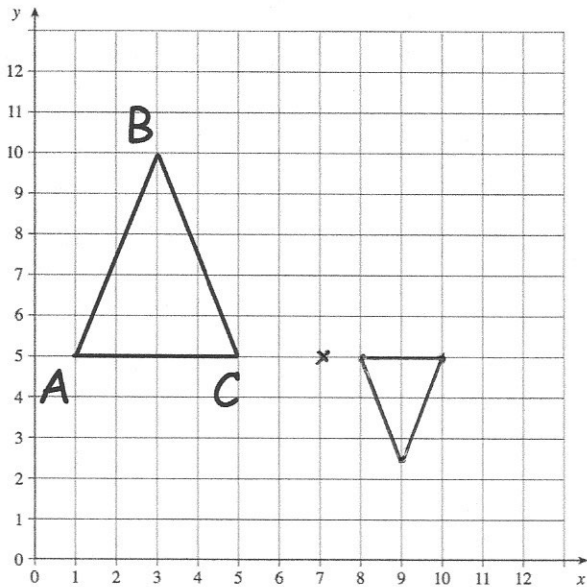
$$C = k\sqrt{W}$$

$$12 = k \times 4$$

Find C in terms of W.

$$k = 3$$

$$C = 3\sqrt{W}$$



Enlarge triangle ABC using scale factor $-\frac{1}{2}$ and (7, 5) as the centre of enlargement.

Factorise fully

$$(x - 1)^2 + 7(x - 1)$$

$$(x - 1)(x - 1 + 7)$$

$$(x - 1)(x + 6)$$

Draw the graph $y = x^2 + x - 5$

x	-3	-2	-1	0	1	2	3
y	1	-3	-5	-5	-3	1	7

Use your graph to estimate the solutions to $x^2 + x - 5 = -1$

$$x = -2.6$$

or

$$x = 1.6$$

