Name: _____ 5-a-day Higher

1st January

Corbettmaths

A is directly proportional to the square root of B.

When A = 50, B = 4.

Find A in terms of B.

$A = k\sqrt{B}$

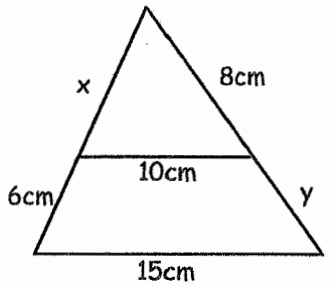
$A = 25\sqrt{B}$

Solve $x^2 = 51 + 14x$

$x^2 - 14x - 51 = 0$

$(x - 17)(x + 3)$

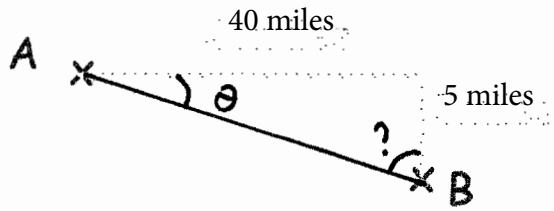
$x = 17$ or -3



Find x and y. Ratio 2:1

$y = 4$

$x = 12$

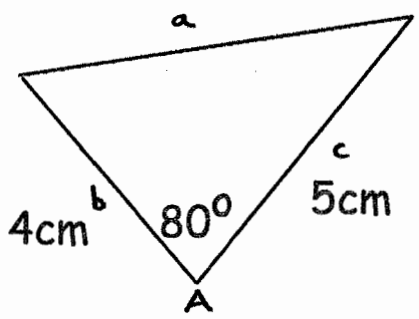


Calculate bearing of A from B.

$\theta = 7.125...$

$? = 82.874...$

$360 - ? = 277^\circ$ (3sf)



Work out the length of the missing side.

$a^2 = b^2 + c^2 - 2bc\cos A$

$a = 5.84$ (3sf)