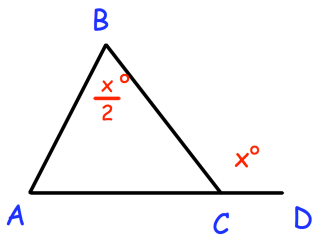


**22nd July**

Corbettmaths

$$3 \begin{pmatrix} a \\ 4 - 2a \end{pmatrix} = \begin{pmatrix} 15 \\ b \end{pmatrix}$$

Work out the values of  $a$  and  $b$ 

Prove triangle ABC is isosceles

Solve  $8\sin\theta - 7 = 0$  for  
 $0^\circ \leq \theta \leq 360^\circ$ Rationalise and simplify  $\frac{17\sqrt{3} + 5\sqrt{5}}{2\sqrt{3} - \sqrt{5}}$ Prove  $\tan\theta\cos\theta \equiv \sin\theta$