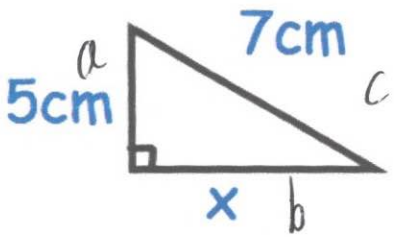
31st January

Corbettmaths

Find x



$a^2 + b^2 = c^2$

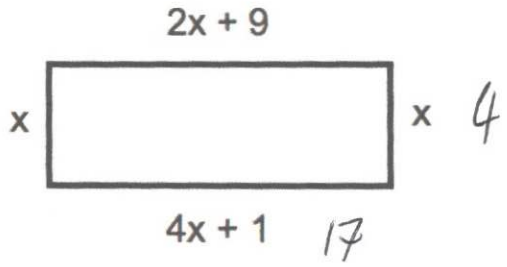
$5^2 + x^2 = 7^2$

$25 + x^2 = 49$

$x^2 = 24$

$x = 4.899\text{cm}$

A rectangle is shown below.



Explain why $4x + 1 = 2x + 9$

Opposite sides of a rectangle are equal in length

Solve the equation above to find the size of x.

$4x + 1 = 2x + 9$

$-2x \quad -2x$

$2x + 1 = 9$

$-1 \quad -1$

$2x = 8$

$\div 2 \quad \div 2$

$x = 4$

Work out the area of the rectangle.

$4 \times 17 = 68\text{cm}^2$

Write down the exact value of Sin 30°

$\frac{1}{2}$

Write down the exact value of Tan 45°

1

$\mathbf{a} = \begin{pmatrix} 2 \\ -1 \end{pmatrix}$ $\mathbf{b} = \begin{pmatrix} 5 \\ 3 \end{pmatrix}$

Work out 2**a** – **b** as a column vector

$2\underline{a} = \begin{pmatrix} 4 \\ -2 \end{pmatrix}$ $\underline{b} = \begin{pmatrix} 5 \\ 3 \end{pmatrix}$

$2\underline{a} - \underline{b} = \begin{pmatrix} -1 \\ -5 \end{pmatrix}$

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