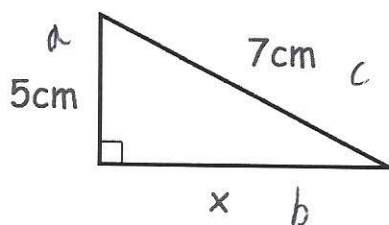


Find x 

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

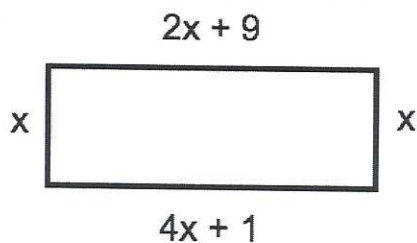
$$5^2 + x^2 = 7^2$$

$$25 + x^2 = 49$$

$$x^2 = 24$$

$$x = 4.899 \text{ cm to 3dp}$$

A rectangle is shown below.

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

Opposite sides of a rectangle are the same length.

Solve the equation above to find the size of x .

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

$$-2x \quad -2x$$

$$2x + 1 = 9$$

$$-1 \quad -1$$

$$2x = 8$$

$$\boxed{x = 4}$$

Work out the area of the rectangle.

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

Write down the exact value of $\sin 30^\circ$

$$\frac{1}{2}$$

Write down the exact value of $\tan 45^\circ$

$$1$$

$$\mathbf{a} = \begin{pmatrix} 12 \\ -8 \end{pmatrix} \quad \mathbf{b} = \begin{pmatrix} -5 \\ 6 \end{pmatrix}$$

Work out $3\mathbf{a} - \mathbf{b}$ as a column vector

$$3\mathbf{a} = \begin{pmatrix} 36 \\ -24 \end{pmatrix} \quad \mathbf{b} = \begin{pmatrix} -5 \\ 6 \end{pmatrix}$$

$$3\mathbf{a} - \mathbf{b} = \begin{pmatrix} 41 \\ -30 \end{pmatrix}$$