

6th June



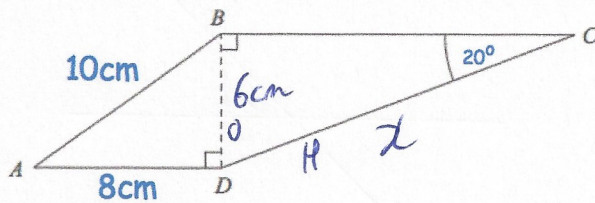
Corbettmaths

Simplify $\sqrt{30} \div \sqrt{6}$

$$\sqrt{5}$$

Simplify $7\sqrt{2} \times 4\sqrt{11}$

$$28\sqrt{22}$$



Find CD

50H

$$10^2 - 8^2 = BD^2$$

$$36 = BD^2$$

$$BD = 6$$

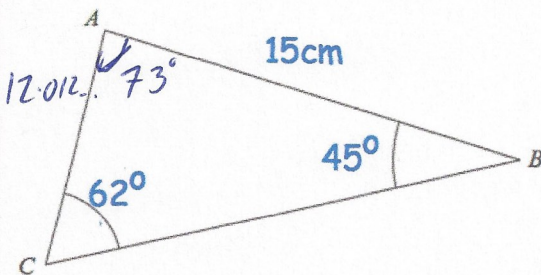
$$x = \frac{6}{\sin 20} = 17.543 \text{ cm}$$

Make g the subject of
 $5g + 3w = ag - c$

$$5g - ag = -3w - c$$

$$g(5-a) = -3w - c$$

$$g = \frac{-3w - c}{5-a}$$



Find the length of AC.

$$\frac{AC}{\sin 45} = \frac{15}{\sin 62}$$

$$AC = 12.0127 \dots \text{ cm}$$

Find angle BAC

$$180 - (62 + 45)$$

$$73^\circ$$

Find the area of the triangle

$$\frac{1}{2} \times 12.0127 \times 15 \times \sin 73$$

$$86.1585 \text{ cm}^2$$