

4th March

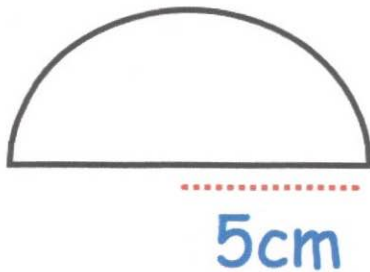


Corbettmaths

$$3\frac{1}{4} - 1\frac{2}{5}$$

$$\frac{13}{4} - \frac{7}{5} = \frac{65}{20} - \frac{28}{20}$$

$$\frac{37}{20} = 1\frac{17}{20}$$



Calculate the area of this semi-circle.

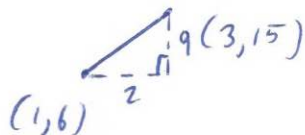
$$\begin{aligned} & \frac{1}{2} (\pi \times r^2) \\ & = \frac{1}{2} (\pi \times 5^2) = 39.27 \text{ cm}^2 \end{aligned}$$

Make w the subject of

$$\begin{aligned} a &= 4w - 3 \\ +3 & \quad +3 \\ a+3 &= 4w \\ \div 4 & \quad \div 4 \end{aligned}$$

$$w = \frac{a+3}{4}$$

Find the gradient of the line passing through the points (1, 6) and (3, 15).



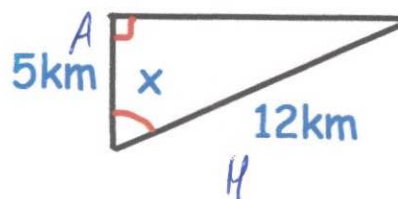
$$\frac{\text{rise}}{\text{run}} = \frac{9}{2} = 4.5$$

Find the size of the angle labelled x

C A H

$$\cos x = \frac{5}{12}$$

$$x = \cos^{-1} \frac{5}{12}$$



$$x = 65.376^\circ$$