

4th February



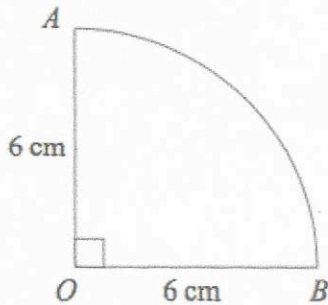
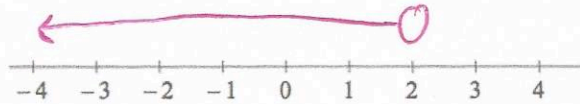
Corbettmaths

Solve $4x - 1 < 7$

$$4x < 8$$

$$x < 2$$

Represent the answer on the number line

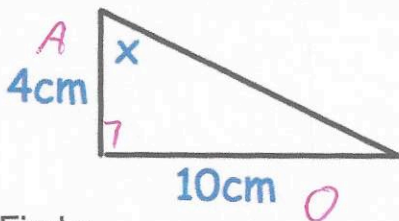


$$\frac{1}{4} (\pi \times 6^2)$$

Calculate the area of this sector.

$$28.27 \text{ cm}^2$$

Shown is a right angled triangle

Find x

$$\tan x = \frac{10}{4}$$

$$x = \tan^{-1} \frac{10}{4}$$

$$= 68.2^\circ$$

Solve the simultaneous equations

$$2x + y = 21 \quad \times 2$$

$$x - 2y = 8$$

$$\frac{4x + 2y = 42}{\underline{x - 2y = 8}} \quad \text{add}$$

$$5x = 50$$

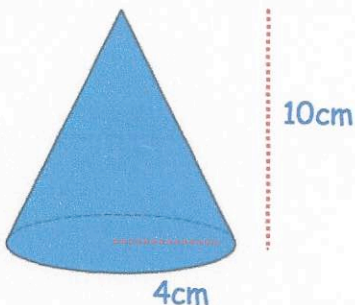
$$x = 10$$

$$10 - 2y = 8$$

$$y = 1$$

$$x = 10$$

$$y = 1$$



Calculate the volume of the cone.

$$\frac{1}{3} \pi r^2 h$$

$$\frac{1}{3} \pi \times 4^2 \times 10$$

$$= 167.55 \text{ cm}^3$$