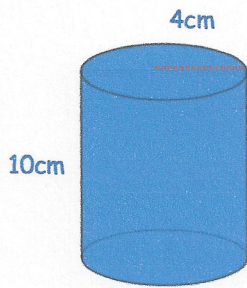


20th June

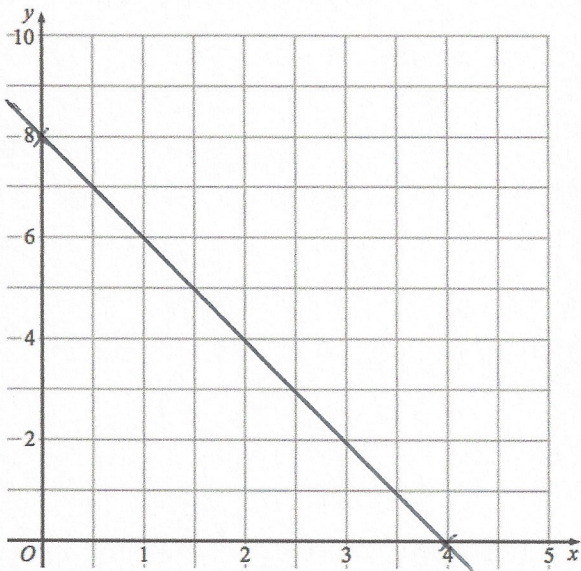


Corbettmaths



Calculate the volume of the cylinder.

$$\begin{aligned}
 V &= \pi r^2 h \\
 &= \pi \times 4^2 \times 10 \\
 &= 502.65 \text{ cm}^3
 \end{aligned}$$



Draw $y = 8 - 2x$

What is the gradient of the line?

-2

Solve the simultaneous equations.

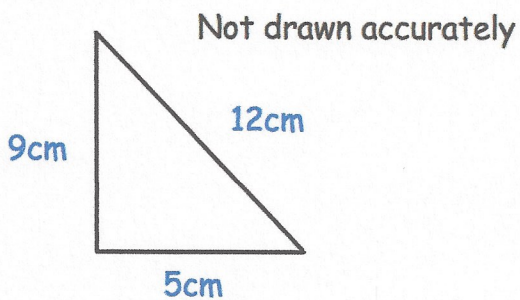
$$\begin{aligned}
 3x + 2y &= 4 & \times 3 \\
 2x - 3y &= 7 & \times 2
 \end{aligned}$$

$$\begin{aligned}
 9x + 6y &= 12 \\
 4x - 6y &= 14
 \end{aligned}$$

$$\begin{aligned}
 13x &= 26 \\
 x &= 2
 \end{aligned}$$

$$\begin{aligned}
 6 + 2y &= 4 \\
 2y &= -2 \\
 y &= -1
 \end{aligned}$$

$$\begin{aligned}
 x &= 2 \\
 y &= -1
 \end{aligned}$$



Shown below is a triangle with sides of length 5cm, 9cm and 12cm.

Is the triangle right-angled?

$$\begin{aligned}
 5^2 + 9^2 &= 106 \\
 12^2 &= 144
 \end{aligned}$$

No