

23rd March

Corbettmaths

Two solids are mathematically similar.
 The surface area of the smaller solid is $42\pi \text{ cm}^2$
 The surface area of the larger solid is $1512\pi \text{ cm}^2$

The height of the larger solid is 96cm.
 Work out the height of the smaller solid.

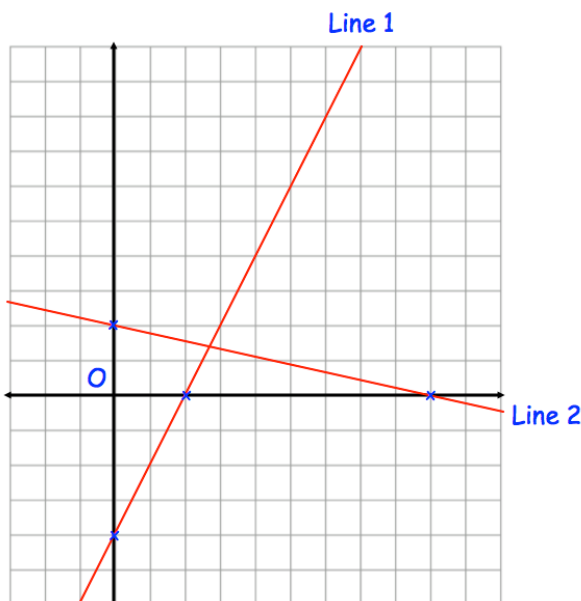
$$w = \frac{\sqrt[3]{y}}{r}$$

$y = 1800$ to 2 significant figures
 $r = 7.1$ to 1 decimal place

By considering bounds, work out the value of w to a suitable degree of accuracy

Make x the subject of

$$y = \frac{x + 7}{x - 3}$$



Shown are two straight lines drawn on the grid.

Line 2 has equation $y = -2x + 18$

Find the equation of Line 1

Are the two lines perpendicular?