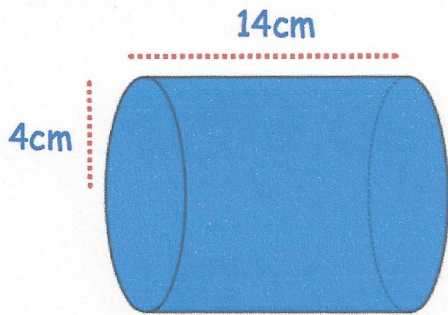


3rd September



Corbettmaths



Calculate the surface area

$$2(\pi \times 4^2) + \pi \times 8 \times 14$$

$$= 452.389 \text{ cm}^2$$

- Line 1: $y = 3x + 1$
- Line 2: $y = 2x - 3$
- Line 3: $3y + x = 6$
- Line 4: $y = \frac{1}{3}x - 1$

$$3y = -x + 6$$

$$y = -\frac{1}{3}x + 2$$

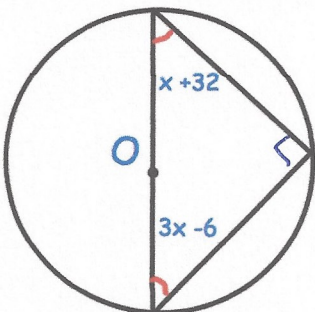
Which lines are perpendicular?

Lines 1 & 3

W^0 W^3 $\frac{W^3}{W^4}$ W^{-2}
 1 8 $\frac{8}{16} = \frac{1}{2}$ $\frac{1}{4}$
 W is greater than 1. e.g. 2

$$W^{-2} \quad \frac{W^3}{W^4} \quad W^0 \quad W^3$$

Write in ascending order.



Find x

$$4x + 26 + 90 = 180$$

$$4x + 116 = 180$$

$$4x = 64$$

$$x = 16$$

The volumes of two mathematically similar solids are in the ratio 8 : 125
 The surface area of the smaller solid is 24 cm²

Work out the surface area of the larger solid.

$$8:125 \quad \checkmark$$

$$2:5 \quad 5$$

$$4:25 \quad A$$

$$24 \div 4 = 6$$

$$6 \times 25 = 150 \text{ cm}^2$$