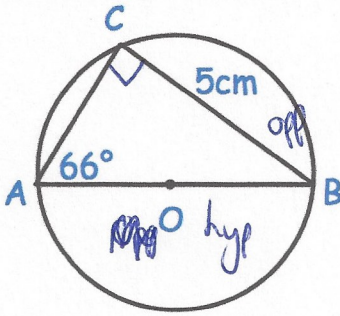


26th September



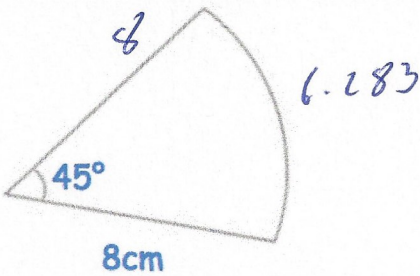
Corbettmaths



Find the diameter AB.

$$AB = \frac{5}{\sin 66}$$

Find the perimeter of the sector.



$$\frac{45}{360} \times \pi \times 16$$

$$= 6.283 \text{ cm}$$

$$8 + 8 + 6.283 = 22.283 \text{ cm}$$

Factorise fully  $24y^2 - 6$

$$6(4y^2 - 1)$$

$$6(2y - 1)(2y + 1)$$

Make w the subject of

$$w - 4 = \frac{3w - 5}{t}$$

$$(w - 4)t = 3w - 5$$

$$tw - 4t = 3w - 5$$

$$tw - 3w = 4t - 5$$

$$w(t - 3) = 4t - 5$$

$$w = \frac{4t - 5}{t - 3}$$

Solid A and Solid B are mathematically similar.

The ratio of the surface area of solid A to the surface area of solid B is 25:4

sides  $5:2$   
 volume  $125:8$

The volume of solid B is  $120 \text{ cm}^3$ .

Find the volume of solid A.

$$120 \div 8 = 15$$

$$15 \times 125 = 1875 \text{ cm}^3$$