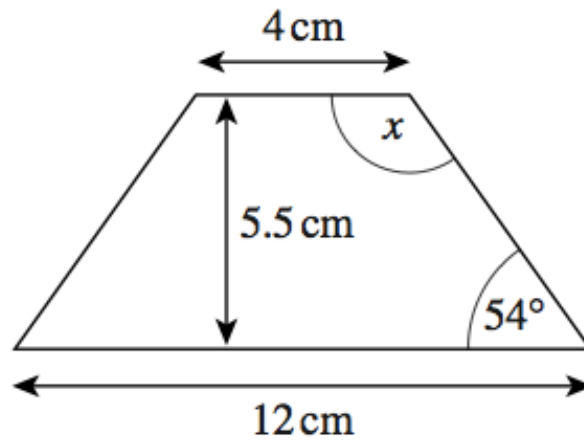


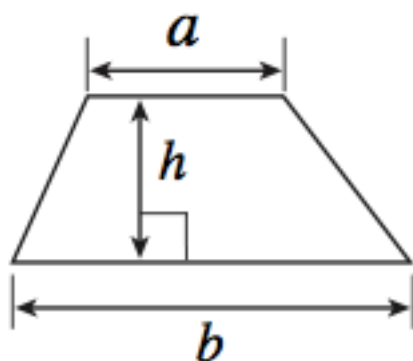
## Geometry - Trapezium Area

The diagram shows an **isosceles** trapezium.



Not drawn accurately

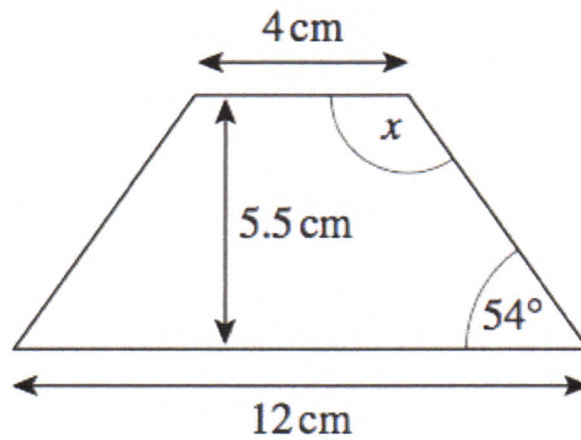
- (a) Work out the value of  $x$ .
- (b) Work out the area of the trapezium.



$$\text{Area of trapezium} = \frac{1}{2} (a + b)h$$

## Geometry - Trapezium Area

The diagram shows an **isosceles** trapezium.



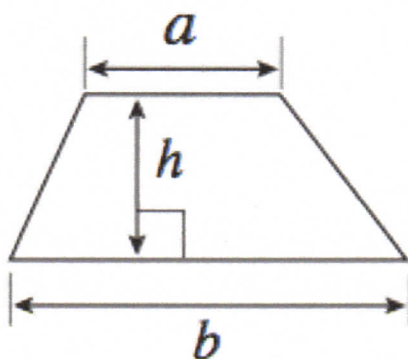
Not drawn accurately

- (a) Work out the value of  $x$ .  $x = 180 - 54 = 126^\circ$   
( $x$  and  $54^\circ$  are allied angles which add up to  $180^\circ$ )

- (b) Work out the area of the trapezium.

$$\begin{aligned} \text{Area} &= \frac{1}{2} (12 + 4) \times 5.5 \\ &= \frac{1}{2} \times 16 \times 5.5 \\ &= 8 \times 5.5 \\ &= 44 \text{ cm}^2 \end{aligned}$$

$$\begin{array}{r} 5.5 \\ \times 8 \\ \hline 44.0 \end{array}$$



$$\underline{\text{Area} = 44 \text{ cm}^2}$$

$$\text{Area of trapezium} = \frac{1}{2} (a + b)h$$