

11th January



Corbettmaths

David is  $x$  years old  $x+3$   
 Martin is 3 years older than David  
 The sum of their ages is 37

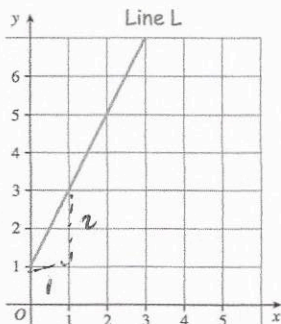
Solve the equation

$$2x = 34$$

$$x = 17$$

Write an equation based on this information

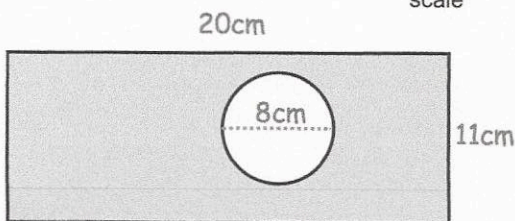
$$2x + 3 = 37$$



Work out the gradient of line L

$$\frac{2}{1} = 2$$

Not drawn to scale



Calculate the shaded area

$$20 \times 11 = 220 \text{ cm}^2$$

$$\pi \times 4^2 = 50.265 \dots$$

$$220 - 50.265 \dots$$

$$= 169.7345 \text{ cm}^2$$

Solve the simultaneous equations

$$5x - 2y = 4 \quad \text{--- (1) } \times 3$$

$$3x - 6y = 6$$

Answer

$$x = 0.5 \text{ and } y = -0.75$$

$$15x - 6y = 12$$

$$\text{sub } 3x - 6y = 6$$

$$12x = 6$$

$$x = 0.5$$

$$\text{sub } x = 0.5 \text{ into (1)}$$

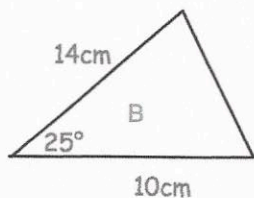
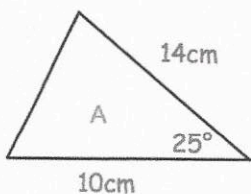
$$2.5 - 2y = 4$$

$$2.5 = 4 + 2y$$

$$-1.5 = 2y$$

$$y = -0.75$$

$$x = 0.5 \text{ and } y = -0.75$$



State the condition why these triangles are congruent.

SAS

Side - angle - side