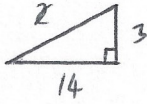


10th October



Corbettmaths

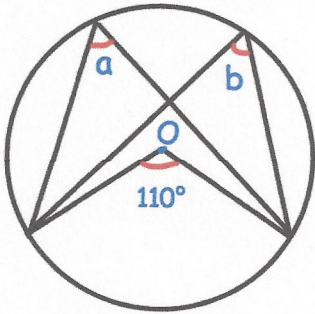
Find the distance between the points (-5, 4) and (9, 7)



$$x^2 = 3^2 + 14^2$$

$$x^2 = 205$$

$$x = 14.3178$$



Find a and b

$$a = 55^\circ$$

$$b = 55^\circ$$

Solve, giving your answers to one decimal place.

$$7x = 13 - x^2$$

$$x^2 + 7x - 13 = 0$$

$$a = 1$$

$$b = 7$$

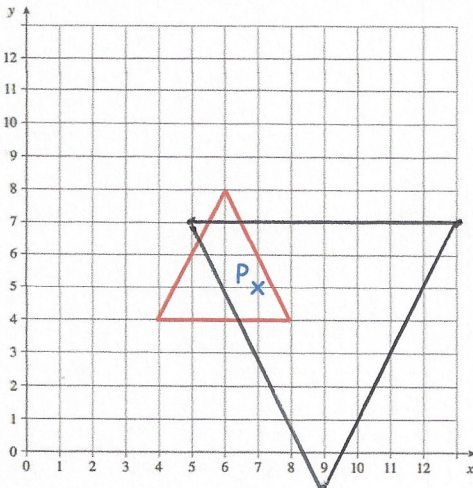
$$c = -13$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$x = \frac{-7 \pm \sqrt{49 - (4 \times 1 \times -13)}}{2}$$

$$x = \frac{-7 \pm \sqrt{101}}{2}$$

$$x = 1.5 \quad \text{or} \quad x = -8.5$$



Enlarge by scale factor -2

Enlarge the red triangle by scale factor -2

How many times larger is the area of the enlarged triangle than the red triangle?

$$32 : 8 = 4$$

$$\boxed{\text{or}} \quad 2^2 = 4$$