

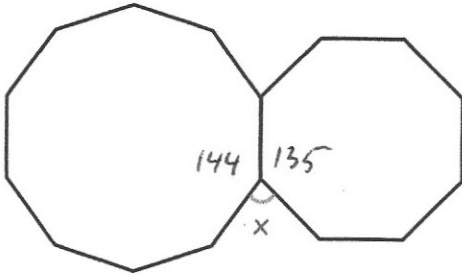
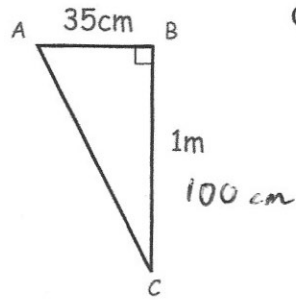


Work out the length of AC.

$$AC^2 = 35^2 + 100^2$$

$$AC^2 = 11225$$

$$AC = 105.9481 \text{ cm}$$



Shown is a regular decagon and a regular octagon.  
 $1440^\circ \div 10 = 144^\circ$   
 $1080^\circ \div 8 = 135^\circ$

Find x

$$360 - 144 - 135 = 81^\circ$$

Solve  $5x^2 + 1 = 21$

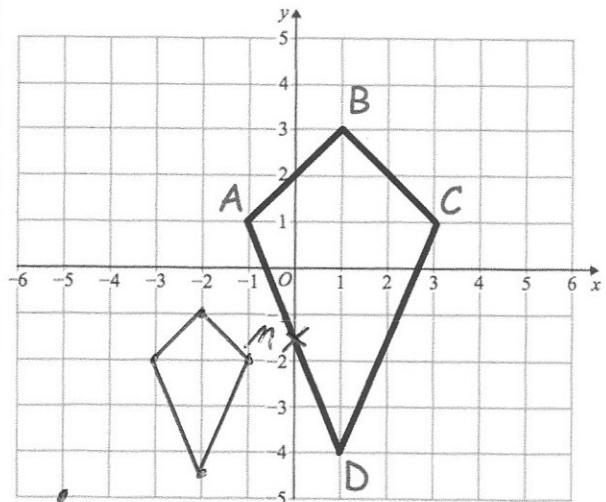
$$5x^2 = 20$$

$$x^2 = 4$$

$$x = 2 \text{ or } x = -2$$

Write down the coordinates of the midpoint of AD.

$$(0, -1.5)$$



Enlarge kite ABCD using scale factor  $\frac{1}{2}$  and centre of enlargement  $(-5, -5)$