



What is the size of each exterior angle of a regular 40 sided polygon?

$$360 \div 40 = 9^\circ$$

What is the size of each interior angle of a regular 40 sided polygon?

$$171^\circ$$

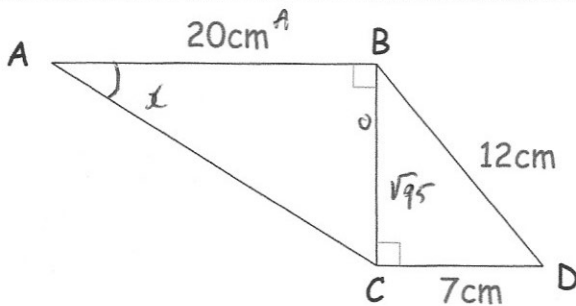
Write as a single power of 2

$$\frac{2^9 \times 8}{4} \times 16$$

$$\frac{2^9 \times 2^3}{2^2} \times 2^4$$

$$\frac{2^{12}}{2^2} \times 2^4$$

$$2^{10} \times 2^4 = 2^{14}$$



Work out the size of angle CAB

$$BC^2 = 12^2 - 7^2$$

$$BC^2 = 95$$

$$BC = \sqrt{95}$$

$$\tan x = \frac{\sqrt{95}}{20}$$

$$x = 25.98^\circ$$

Expand and simplify

$$\sqrt{5}(3\sqrt{2} - \sqrt{5})$$

$$3\sqrt{10} - 5$$