

4th May



Corbettmaths

Solve

$$3x^2 = 147$$

$$x^2 = 49$$

$$x = 7 \text{ or } -7$$

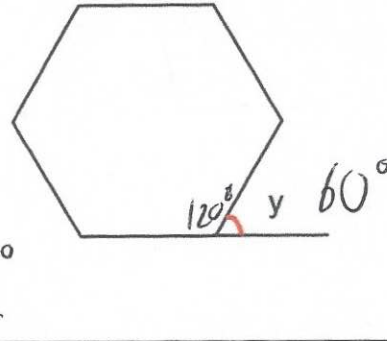
Shown below is a regular hexagon, with an exterior angle labeled y.

$$720 \div 6 = 120^\circ$$

$$180 - 120 = 60^\circ$$

or

$$360 \div 6 = 60^\circ$$



$$6w = 24$$

$$w = 4$$

2w	w	3w
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$$w = 4$$

$$16 + 8x = 24$$

$$x = 1$$

4w	x	7x
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$$x = 1$$

$$26 + y = 24$$

$$y = -2$$

22x	w	y
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$$y = -2$$

Every row adds up to 24.

Find the value of $3w + 2x + y$

$$12 + 2 + -2$$

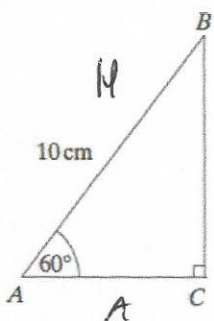
$$12$$

A sphere has radius of length 5cm
Calculate its surface area.

$$4\pi r^2$$

$$4 \times \pi \times 5^2$$

$$100\pi \text{ or } 314.16 \text{ cm}^2$$



Calculate the length of AC

$$AC = \cos(60) \times 10$$

$$= 5 \text{ cm}$$