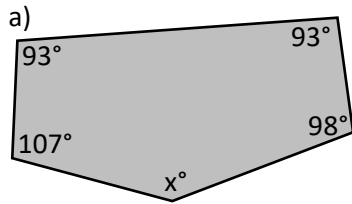




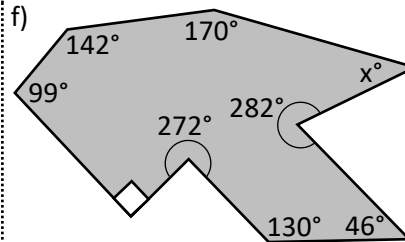
Name: _____



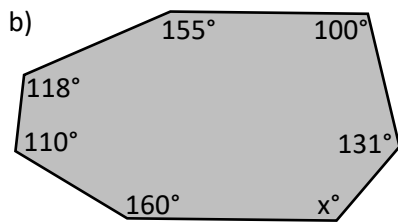
Calculate the value of missing angle x in these polygons.



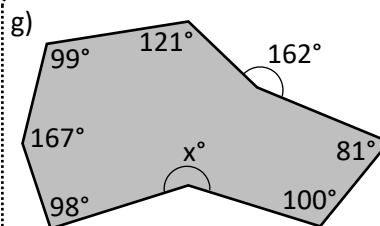
149°



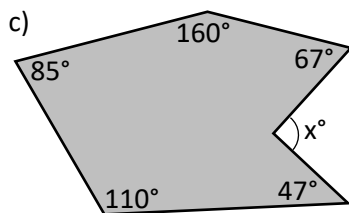
29°



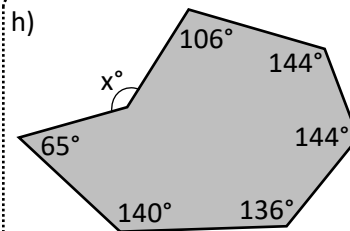
126°



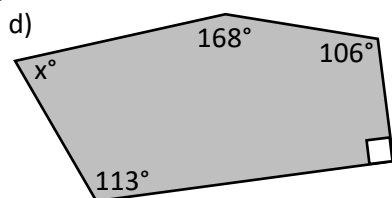
216°



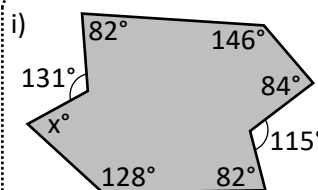
109°



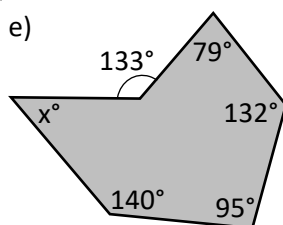
195°



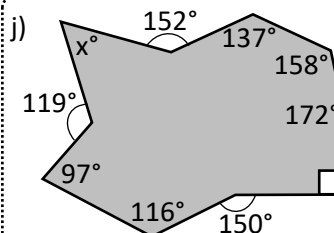
63°



84°



47°

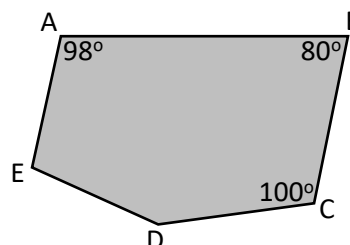


101°

Exam question:

The diagram shows the pentagon ABCDE. Angle CDE is twice as big as angle ABC. Calculate the size of angle AED.

102°



Exterior angles in polygons

96b

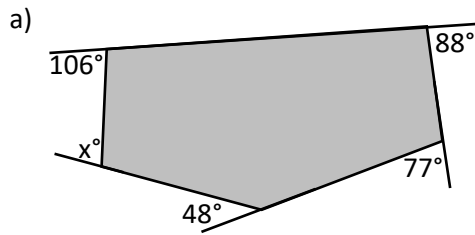


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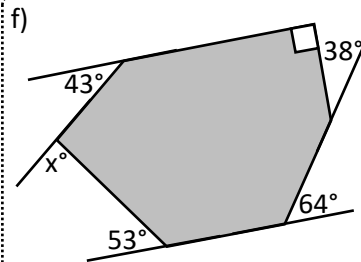
Name: _____



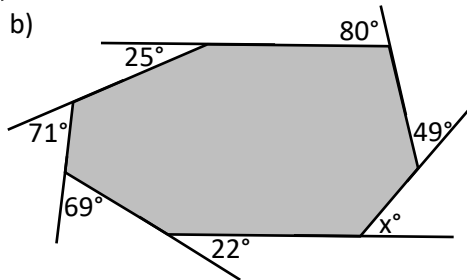
Calculate the value of missing angle x in these polygons.



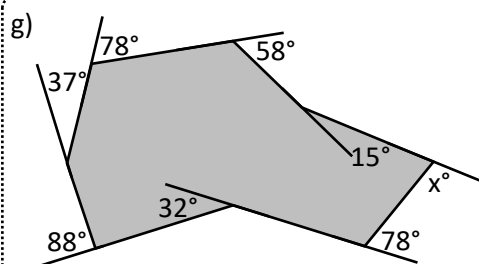
41°



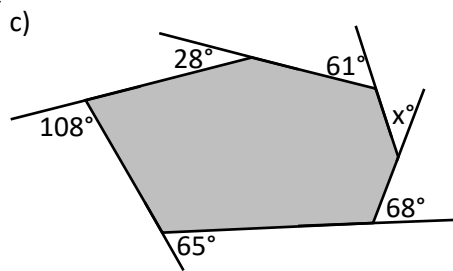
72°



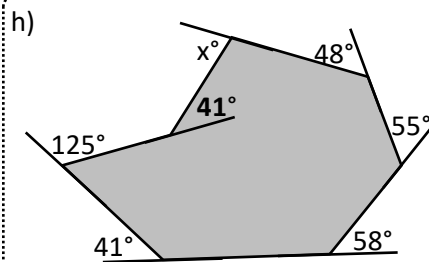
44°



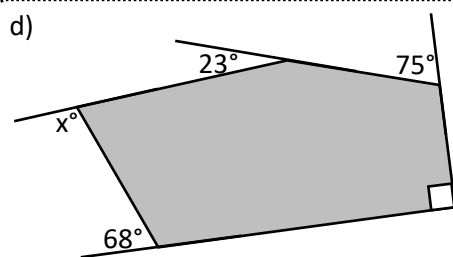
68°



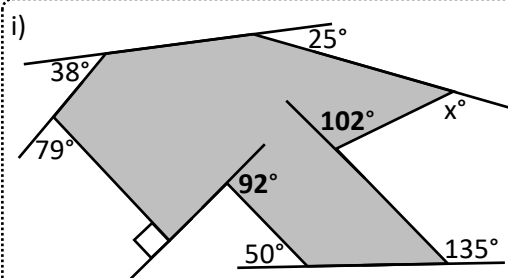
30°



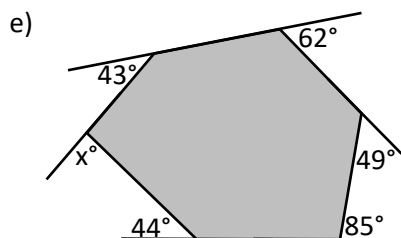
74°



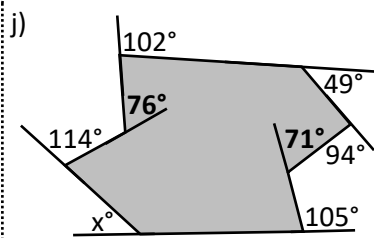
104°



137°



77°

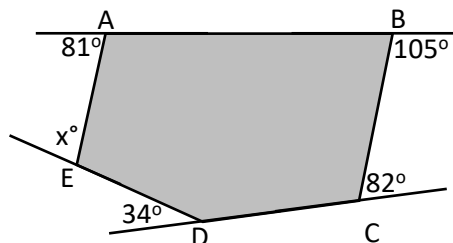


43°

Exam question:

The diagram shows the pentagon ABCDE. Calculate the external angle shown as x at E.

58°

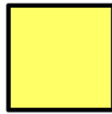
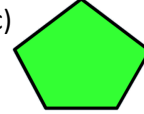
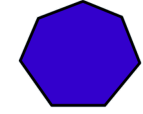




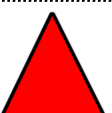
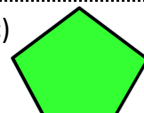
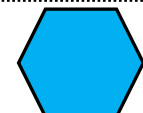
Name: _____



Calculate the size of each **interior** angle of the **regular** shapes:

a)  60°	b)  90°	c)  108°	d)  128.6°
n) Decagon 144°	o) Octagon 135°	p) Hexagon 120°	q) 18 sided shape 160°

Calculate the size of each **exterior** angle of the **regular** shapes:

a)  120°	b)  90°	c)  72°	d)  60°
n) Decagon 36°	o) Octagon 45°	p) 12 sided shape 30°	q) 18 sided shape 20°

Find the number of sides of a **regular** polygon which has an **interior** angle of:

a) 90° 4	d) 120° 6	g) 135° 8
b) 144° 10	e) 157.5° 16	h) 160° 18

Find the number of sides of a **regular** polygon which has an **exterior** angle of:

a) 120° 3	d) 15° 24	g) 7.5° 48
b) 9° 40	e) 22.5° 16	h) 14.4° 25

Exam question:

Find the number of sides of a **regular** polygon which has an exterior angle of 30°.



12

