

OTHER POLYGONS: Interior and Exterior Angles of Other Polygons

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NAME: _____

1. 080428a, P.I. G.G.36

What is the sum, in degrees, of the measures of the interior angles of a stop sign, which is in the shape of an octagon?

- [A] 1,080 [B] 360
 [C] 1,440 [D] 1,880

2. 080109a, P.I. G.G.36

The sum of the measures of the interior angles of an octagon is

- [A] 540° [B] 360°
 [C] 180° [D] $1,080^\circ$

3. 010514a, P.I. G.G.36

What is the sum, in degrees, of the measures of the interior angles of a pentagon?

- [A] 180 [B] 360 [C] 540 [D] 900

4. 080820a, P.I. G.G.37

The measures of five of the interior angles of a hexagon are 150° , 100° , 80° , 165° , and 150° . What is the measure of the sixth interior angle?

- [A] 180° [B] 105° [C] 80° [D] 75°

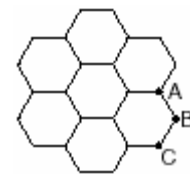
5. fall0827ge, P.I. G.G.37

What is the measure of an interior angle of a regular octagon?

- [A] 45° [B] 135° [C] 60° [D] 120°

6. 060516a, P.I. G.G.37

The accompanying figure represents a section of bathroom floor tiles shaped like regular hexagons.



What is the measure of angle ABC ?

- [A] 90° [B] 150°
 [C] 120° [D] 60°

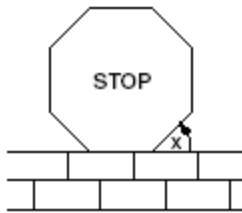
7. 060213a, P.I. G.G.37

What is the measure, in degrees, of each exterior angle of a regular hexagon?

- [A] 45 [B] 135 [C] 60 [D] 120

8. 080507a, P.I. G.G.37

A stop sign in the shape of a regular octagon is resting on a brick wall, as shown in the accompanying diagram.

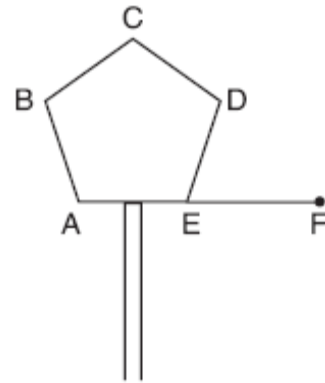


What is the measure of angle x ?

- [A] 120° [B] 135° [C] 60° [D] 45°

9. 060718a, P.I. G.G.37

One piece of the birdhouse that Natalie is building is shaped like a regular pentagon, as shown in the accompanying diagram.



If side AE is extended to point F , what is the measure of exterior angle DEF ?

- [A] 108° [B] 36° [C] 144° [D] 72°

10. 060423a, P.I. G.G.37

Melissa is walking around the outside of a building that is in the shape of a regular polygon. She determines that the measure of one exterior angle of the building is 60° . How many sides does the building have?

- [A] 6 [B] 3 [C] 12 [D] 9

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[1] A

[2] D

[3] C

[4] D

[5] B

[6] C

[7] C

[8] D

[9] D

[10] A