

Exterior Angles in Regular Polygons

- (a) Find the size of one exterior angle in a regular pentagon.
- (b) Find the size of one exterior angle in a regular octagon.
- (c) Find the size of one exterior angle in a regular 12-sided polygon.
- (d) Find the size of one exterior angle in a regular 20-sided polygon.

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- (a) A regular polygon has an interior angle of 144° . Find the size of one exterior angle.
- (b) A regular polygon has an interior angle of 120° . Find the size of one exterior angle.
- (c) A regular polygon has an interior angle of 156° . Find the size of one exterior angle.

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- (b) A regular polygon has an interior angle of 120° . Find the size of one exterior angle.
- (c) A regular polygon has an interior angle of 156° . Find the size of one exterior angle.

- (a) A regular polygon has an exterior angle of 40° . Find the number of sides the regular polygon has.
- (b) A regular polygon has an exterior angle of 20° . Find the number of sides the regular polygon has.
- (c) A regular polygon has an exterior angle of 10° . Find the number of sides the regular polygon has.

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- (a) The interior angle of a regular polygon is five times its exterior angle. Calculate the number of sides this regular polygon has.
- (b) The exterior angle of a regular polygon is one quarter of the interior angle. Find the name of this regular polygon.
- (c) The interior and exterior angle of a regular polygon are in the ratio $14 : 1$. Find the number of sides this regular polygon has.

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