Missing Angles in a Triangle

Today's Learning Targets:

4.5 I can find missing interior and exterior angles in a triangle.

Interior Angles
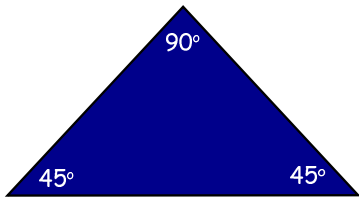
The sum of all three _____ in a triangle adds up to_____. ALWAYS!

90°

45°   45°

The sum of the measure of the angles of a triangle

=

2

1   3

=

Find the measure of the missing angle.

31°

43°

?
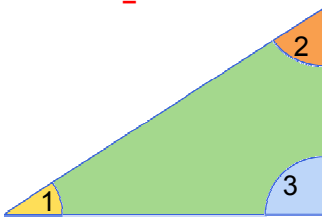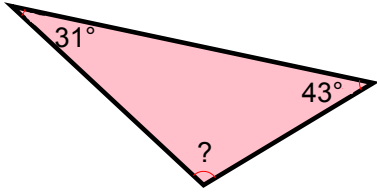
Option #1	OR	Option #2

Find the measure of the missing angle.

49°

?

45°
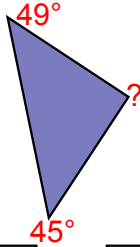
Option #1	OR	Option #2

Calculate the degree of the angles in the triangles below.
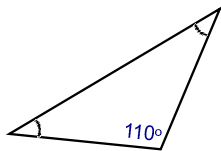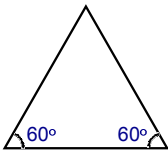
60°   60°

110°

Calculate the degree of the angles in the triangles below.

100°   ? ?

?
45°   100°
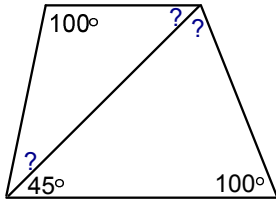
Exterior Angles

The sum of_____
adds up to the_____
_____.

∠A + ∠B = ∠Z

B

A   C Z
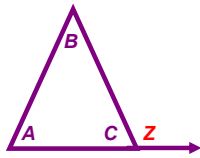
Exterior Angles

The sum of all three_____
in a triangle adds up to_____.

∠Y + ∠X + ∠Z =

Y
B

A   C Z
X
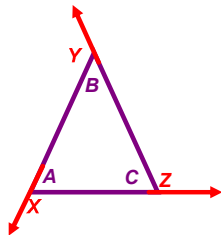
Find the measure of the missing angles.

$x°=$
$y°=$

x°
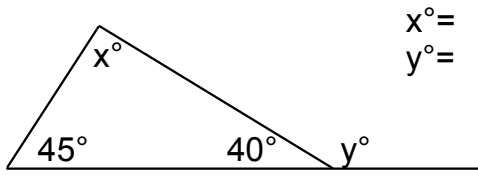
45°   40°   y°

Find the measure of the missing angles.

110° X°

37°
X°

45°
X°
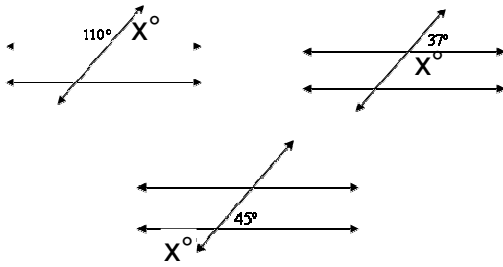
If m∠8 = 50° find the measure of ∠7. Be careful!
Are the angles congruent?   Why?

1 2
3 4

5 6
7 8 50°
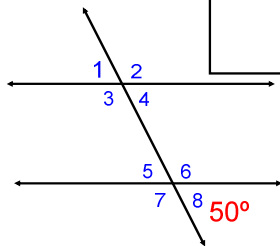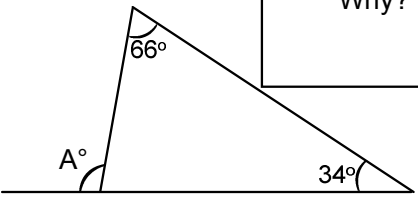
What is the value of $\angle A°$?

Why?

66°

A°

34°
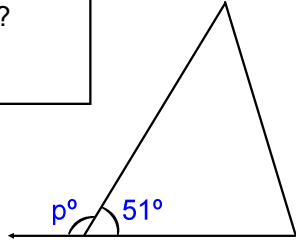
What is the value of $\angle p°$?

Why?

p° 51°

If m$\angle 8 = 50°$ find the measure of $\angle 4$.

Why?

1 2
3 4

5 6
7 8 50°