Algebra 2A   **Name** _____

9.1   **Assignment**
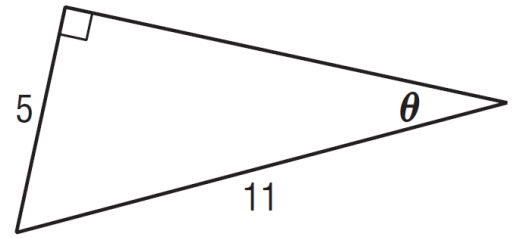
Find the six trigonometric functions for each triangle.

1.

2.

sin θ = _____   csc θ = _____   sin θ = _____   csc θ = _____

cos θ = _____   sec θ = _____   cos θ = _____   sec θ = _____

tan θ = _____   cot θ = _____   tan θ = _____   cot θ = _____
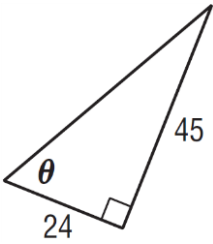
Write an equation involving sin, cos, or tan that can be used to find *x*. Then solve the equation. *Round measures of sides to the nearest tenth and measures of angles to the nearest degree.*
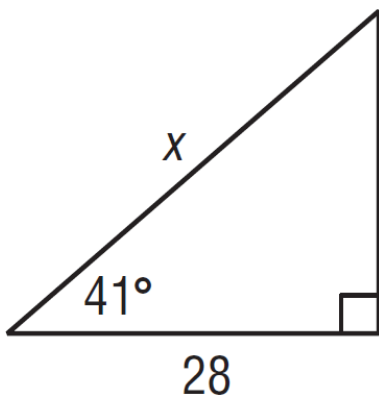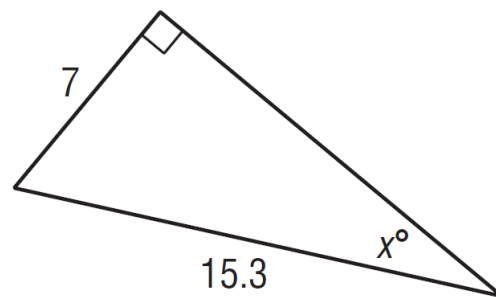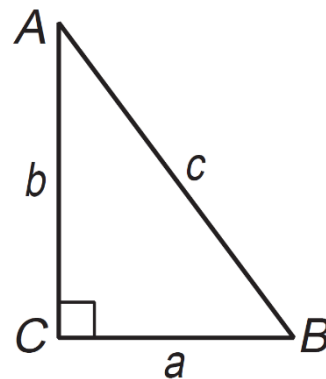
3.

4.

1
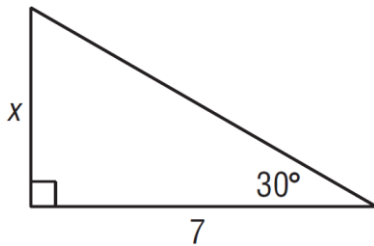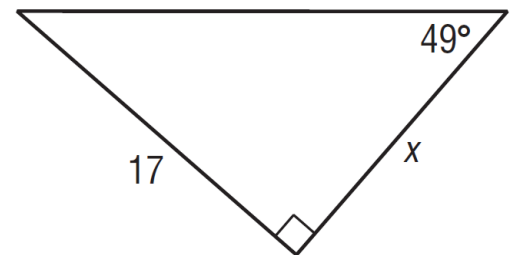
5.

6.

Solve $\triangle ABC$ **by using the given measurements.** *Round the measures of the sides to the nearest tenth and measures of angles to the nearest degree.*
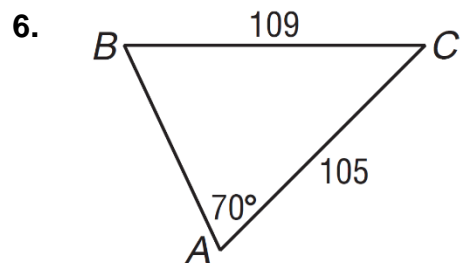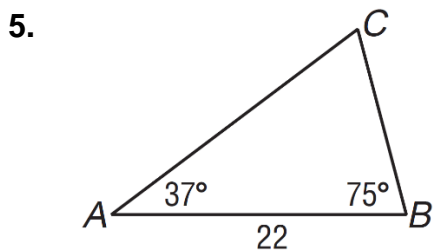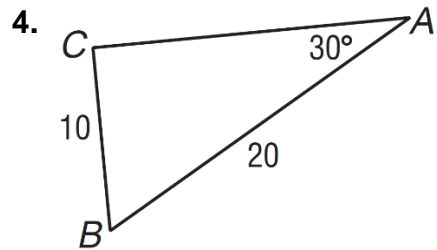
7. $A = 35°,\ a = 12$

8. $B = 36°,\ c = 8$

9. $a = 4,\ b = 7$

Name _____

<u>**Assignment**</u>

For Questions 1-6, solve each triangle. *Round measures of sides to the nearest tenth and measures of angles to the nearest degree.*
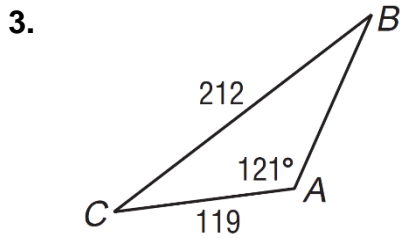
1.

A

15°

375

72° C

B

2.

B

12°

51

18°

C

A

3.

B

212

121°

A

C

119

4.

C

30° A

10

20

B

5.

C

37°

75° B

A

22

6.

B

109

C

105

70°

A

Algebra 2A

9.3   Assignment
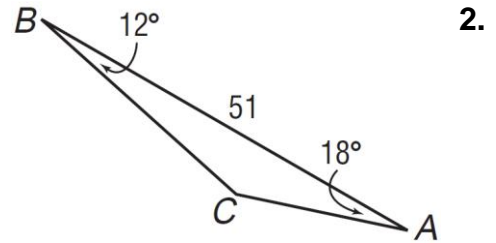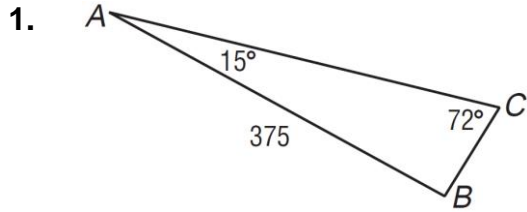
For Questions 1-6, determine whether each triangle should be solved by beginning with the Law of Sines or the Law of Cosines. Then solve each triangle. *Round measures of sides to the nearest tenth and measures of angles to the nearest degree.*
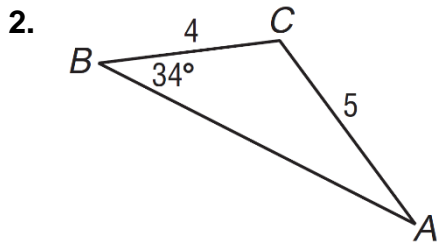
1.
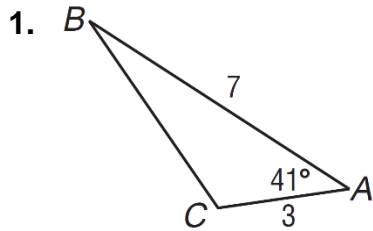
Begin with the Law of _____

$a =$ _____
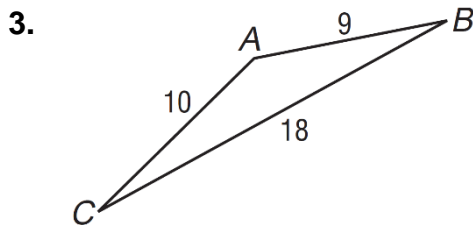
$m\angle B =$ _____

$m\angle C =$ _____

2.

Begin with the Law of _____

$c =$ _____
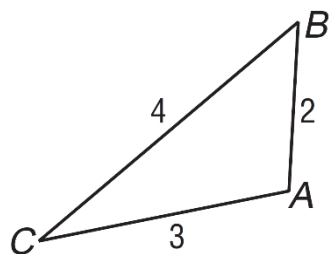
$m\angle A =$ _____

$m\angle C =$ _____

3.

Begin with the Law of _____

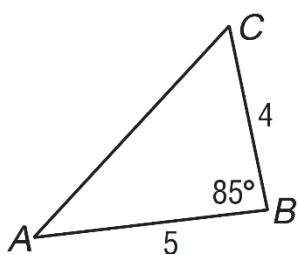$m\angle A =$ _____

$m\angle B =$ _____

$m\angle C =$ _____

4.

Begin with the Law of _____

$m\angle A =$ _____

$m\angle B =$ _____

$m\angle C =$ _____

5.

Begin with the Law of _____

$b =$ _____

$m\angle A =$ _____

$m\angle C =$ _____

6.

Begin with the Law of _____

$a =$ _____

$c =$ _____

$m\angle B =$ _____