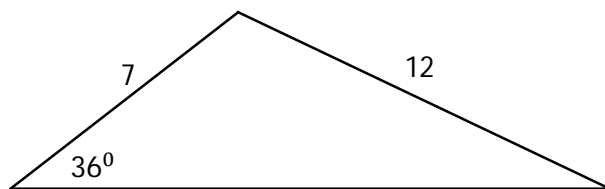
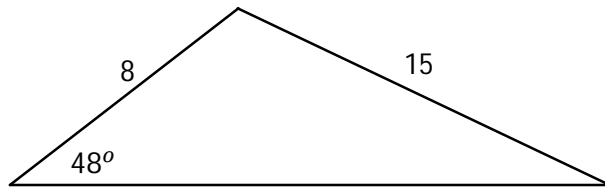


## C11 - 2.6 - Solve ASS Triangle Without Sine Law Notes

Solve the triangle



## C11 - 2.6 - Algebra Sine Law HW

Solve for the variable.

$$\frac{a}{\sin 35^\circ} = \frac{4}{\sin 27^\circ}$$

$$\frac{12}{\sin 52} = \frac{c}{\sin 30}$$

$$\frac{b}{\sin 20^\circ} = \frac{2}{\sin 45^\circ}$$

$$\frac{19}{\sin 34^\circ} = \frac{b}{\sin 30^\circ}$$

$$\frac{b}{\sin 35^\circ} = \frac{4}{\sin 27^\circ}$$

$$\frac{12}{\sin 52} = \frac{a}{\sin 30}$$

$$\frac{c}{\sin 25^\circ} = \frac{8}{\sin 67^\circ}$$

$$\frac{77}{\sin 15^\circ} = \frac{a}{\sin 39}$$

$$\frac{\sin A}{14} = \frac{\sin 29^\circ}{8}$$

$$\frac{\sin 23}{7} = \frac{\sin C}{5}$$

$$\frac{\sin 42}{2} = \frac{\sin A}{3}$$

$$\frac{\sin B}{8} = \frac{\sin 69^\circ}{10}$$

$$\frac{\sin C}{5} = \frac{\sin 11^\circ}{1}$$

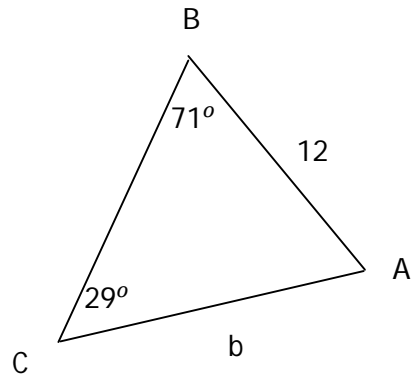
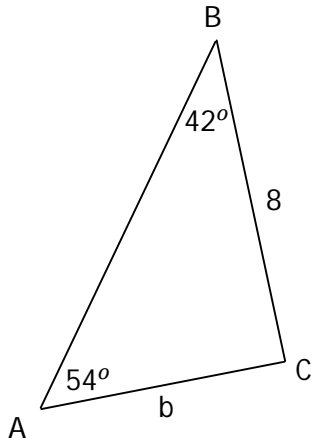
$$\frac{\sin 43}{21} = \frac{\sin C}{4}$$

$$\frac{\sin 73}{2} = \frac{\sin A}{7}$$

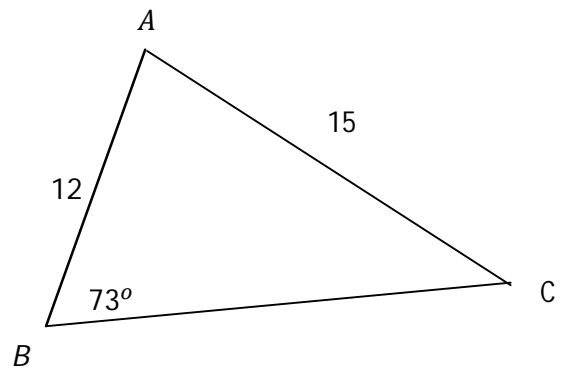
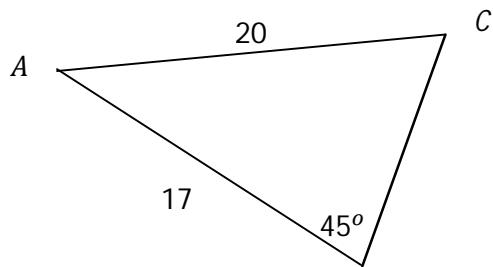
$$\frac{\sin B}{9} = \frac{\sin 19^\circ}{8}$$

## C11 - 2.6 - Sine Law HW

Solve for b.

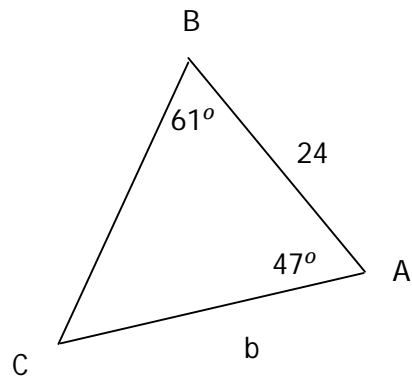
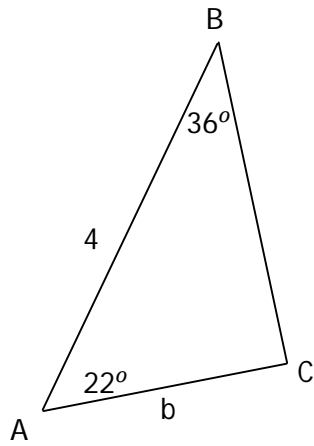


Solve for the angle C

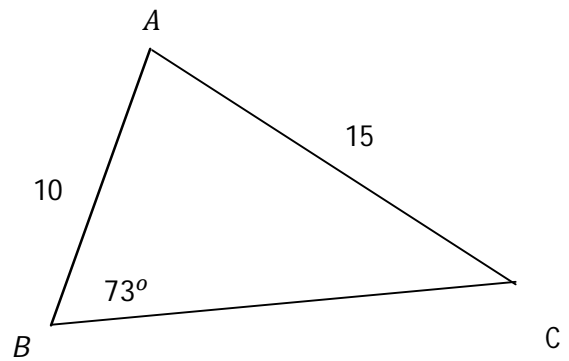
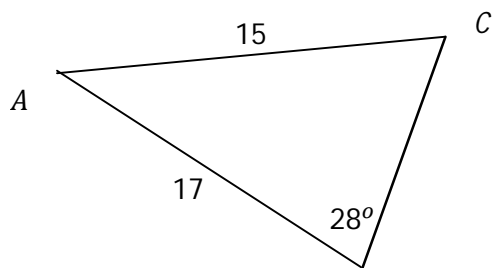


## C11 - 2.6 - Sine Law HW

Solve for b.



Solve for the angle C



## C11 - 2.6 - ASS Sine Law HW

**How many triangles? Solve the triangles.**

$$\angle A = 30^\circ, b = 10, a = 5$$

$$\angle A = 30^\circ, b = 10, a = 4$$

$$\angle A = 30^\circ, b = 10, a = 12$$

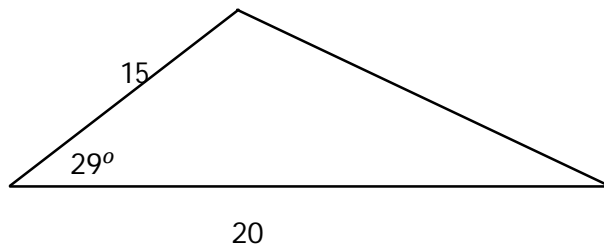
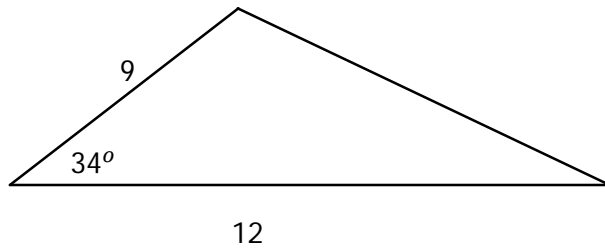
$$\angle A = 30^\circ, b = 10, a = 6$$

$$\angle A = 120^\circ, b = 8, a = 10$$

$$\angle A = 120^\circ, b = 8, a = 4$$

## C11 - 2.7 - Solve SAS Triangle Without Cosine Law Notes

Solve the triangle.



## C11 - 2.7 - Algebra Cosine Law HW

*Solve for the variable. Enter the right hand side into your calculator, then square root both sides.*

$$c^2 = 4^2 + 5^2 - 2(4)(5)\cos 30$$

$$c^2 = 10^2 + 7^2 - 2(10)(7)\cos 60$$

$$c^2 = 8^2 + 9^2 - 2(8)(9)\cos 45$$

$$c^2 = 11^2 + 4^2 - 2(11)(4)\cos 50$$

*Solve for the variable. Do algebra to isolate  $\cos C$ , then take the inverse  $\cos^{-1}(\ )$*

$$7^2 = 5^2 + 9^2 - 2(5)(9)\cos C$$

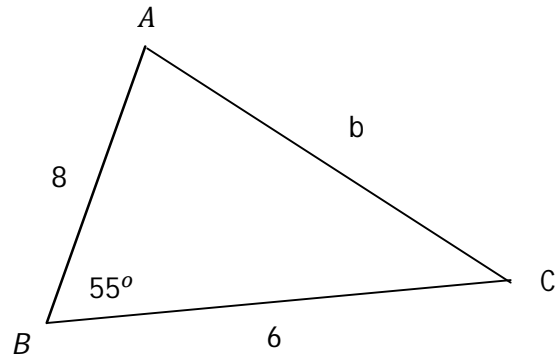
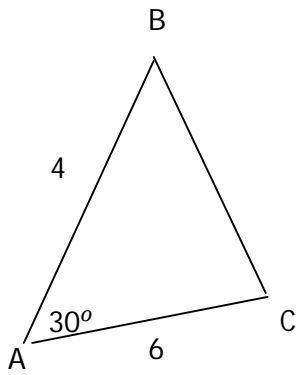
$$11^2 = 4^2 + 12^2 - 2(4)(12)\cos C$$

$$9^2 = 8^2 + 7^2 - 2(8)(7)\cos C$$

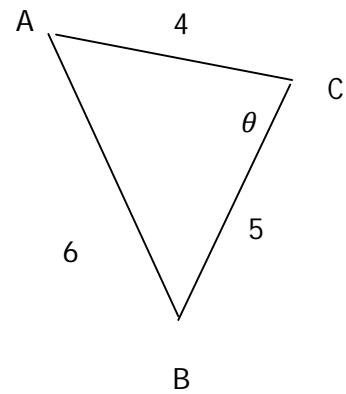
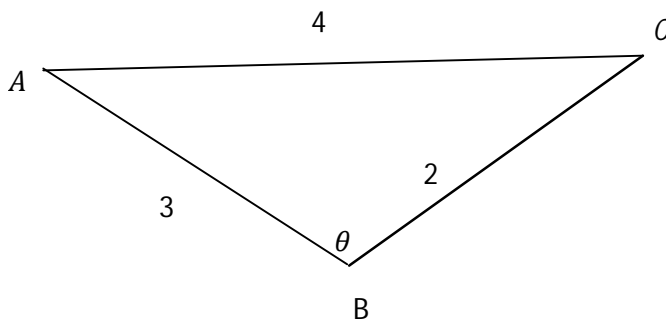
$$20^2 = 21^2 + 35^2 - 2(21)(35)\cos C$$

## C11 - 2.7 - Cosine Law HW

Find the third side.



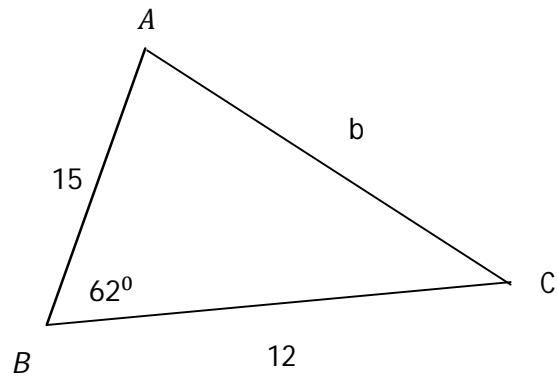
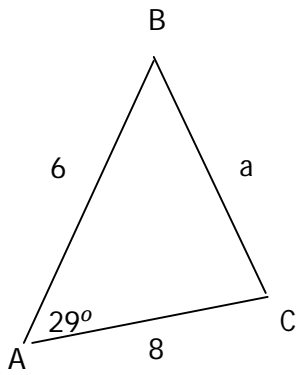
Find  $\theta$ .



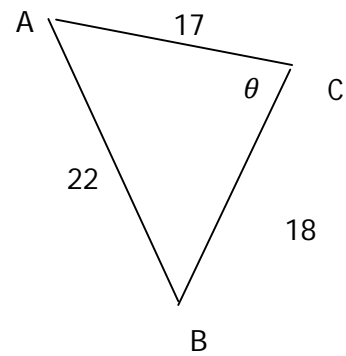
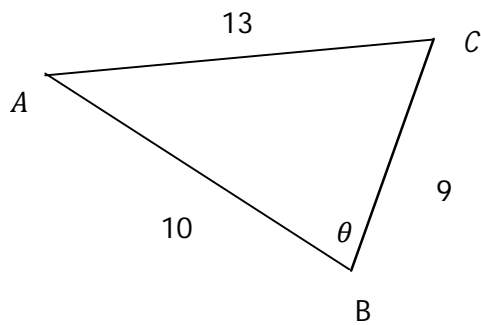


## C11 - 2.7 - Cosine Law HW

Find the third side.

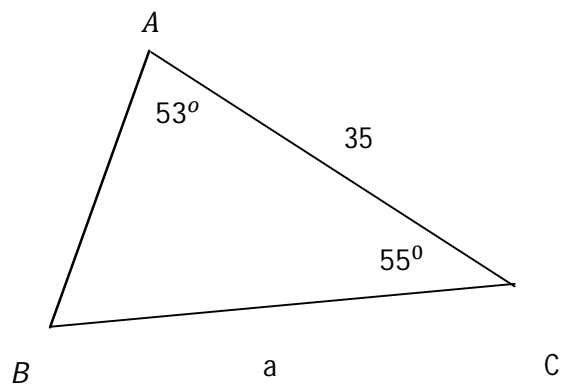
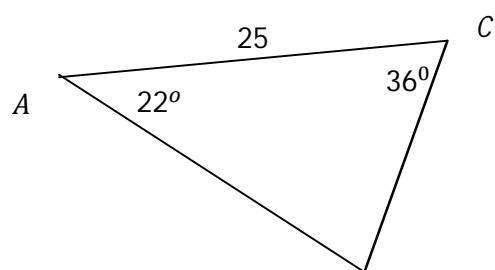
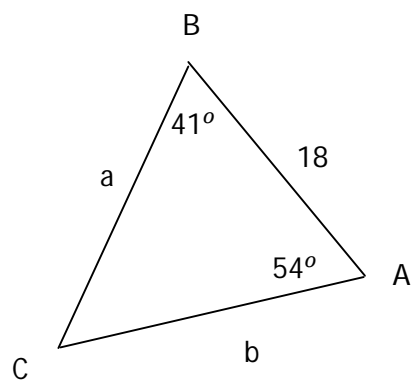
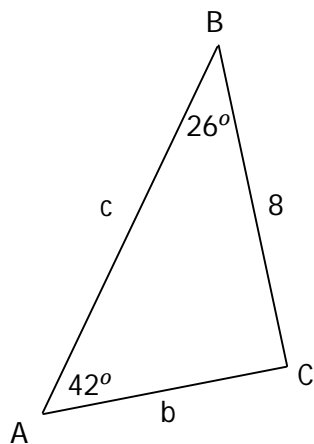


Find  $\theta$ .



# C11 - 2.6 - Solve the Triangle Sine Law 180° HW

Solve the triangle.



# C11 - 2.6/7 - Solve Triangle Cosine/Sine Law HW

Solve the triangle.

