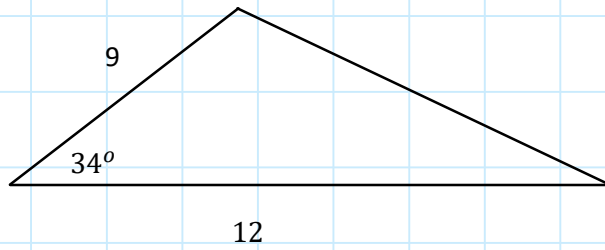


# C11 - 2.10 - Solve SAS Triangle Without Cosine Law Notes

Solve the triangle.



## C11 - 2.10 - Algebra Cosine Law HW

*Solve for the variable. Enter the right hand side into your calculator, 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  $\cos^{-1}(\ )$*

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

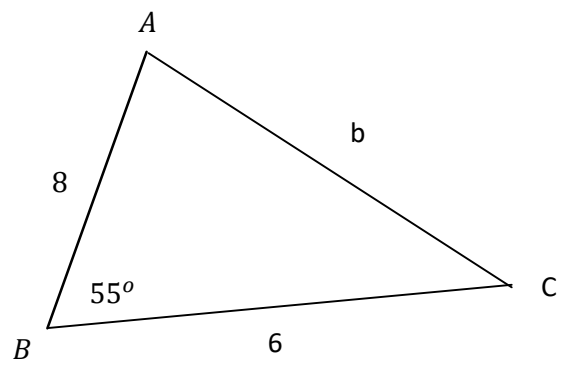
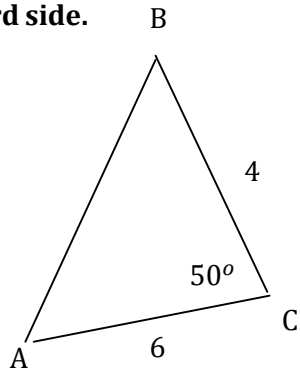
$$11^2 = 4^2 + 12^2 - 2(4)(12)\cos C$$

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

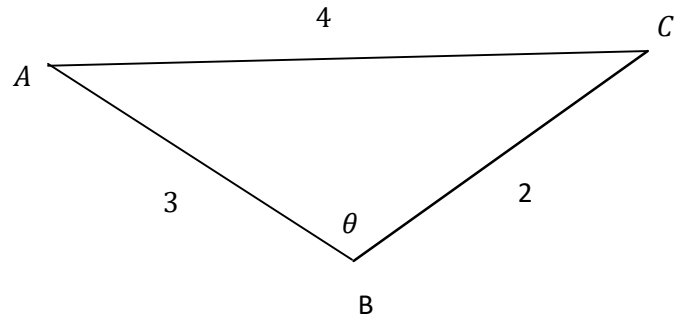
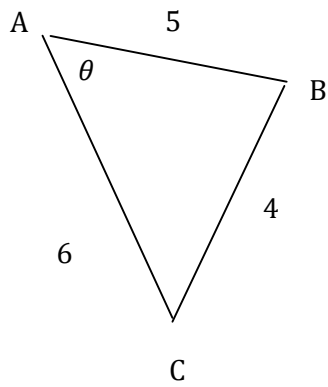
$$20^2 = 21^2 + 35^2 - 2(21)(35)\cos C$$

# C11 - 2.10 - Cosine Law HW

Find the third side.

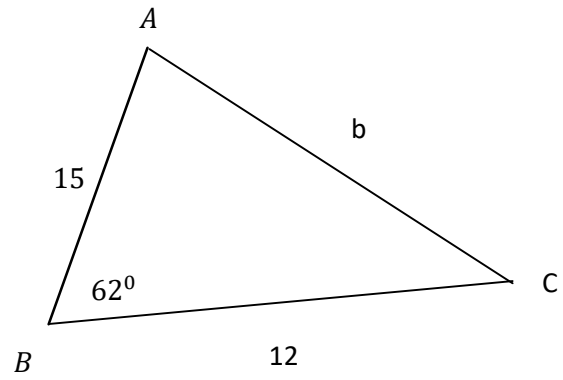
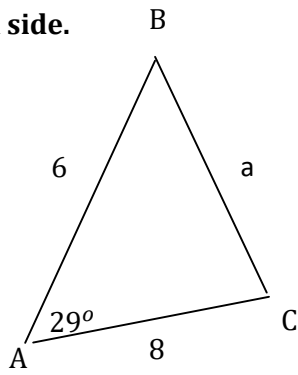


Find  $\theta$ .



# C11 - 2.10 - Cosine Law HW

Find the third side.



Find  $\theta$ .

