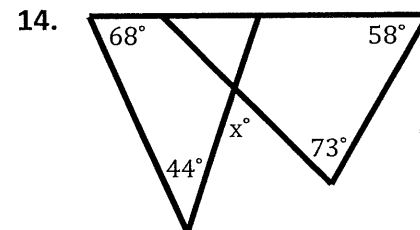
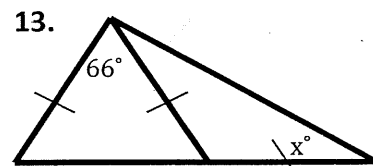
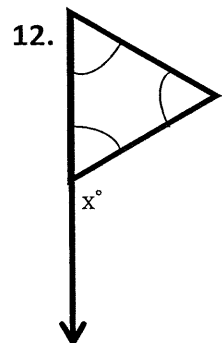
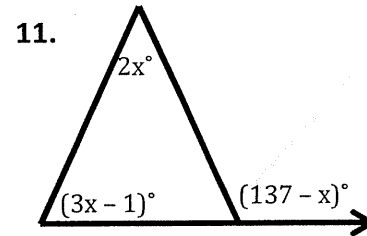
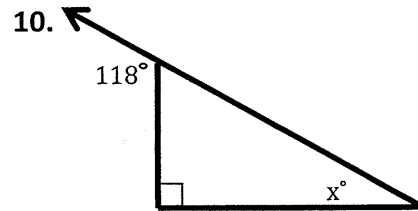
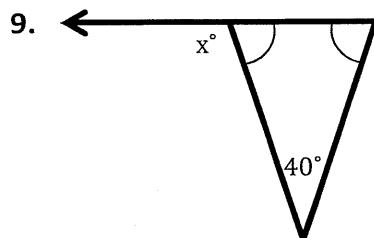
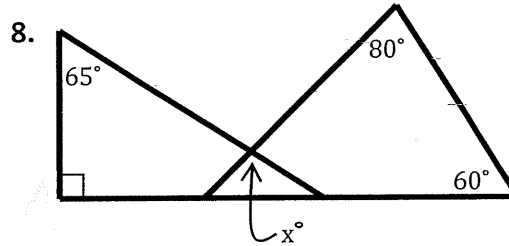
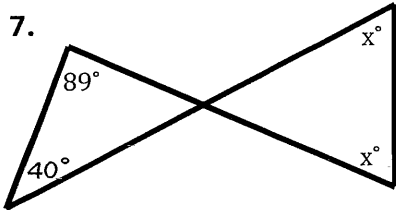
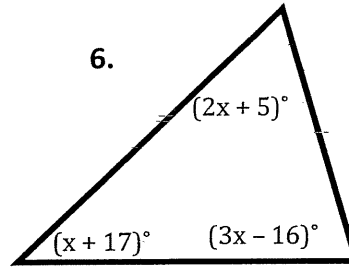
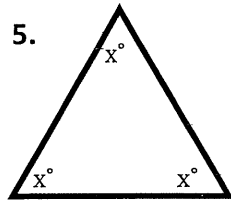
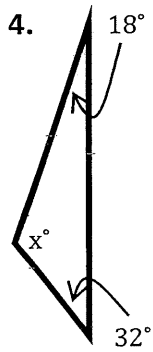
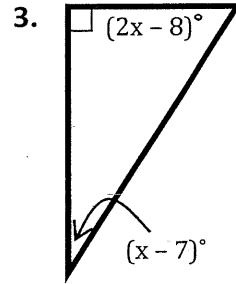
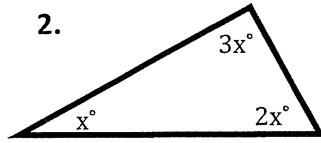
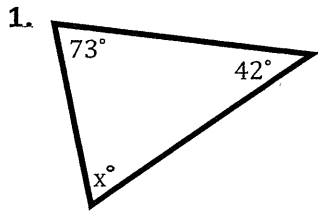


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

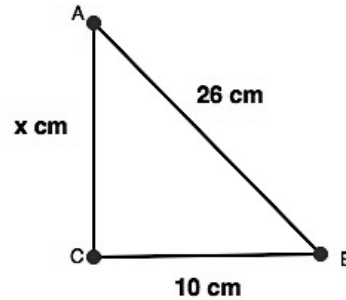
**CCGPS Analytic Geometry**  
**Homework: Interior and Exterior Angles of Triangles**

Directions: Find the value of  $x$ .

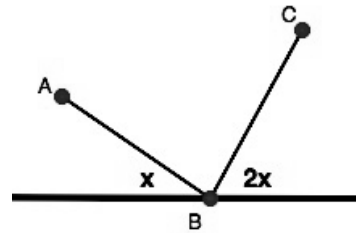


Examine the diagram and add any information that you are given. Think how you can use what you have been given and what you know to answer the question. Plan a strategy for finding the value of  $x$ . Follow your plan. Justify each step.

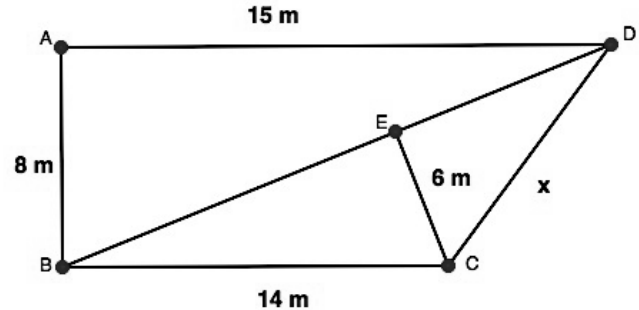
17. Given:  $m\angle C = 90^\circ$



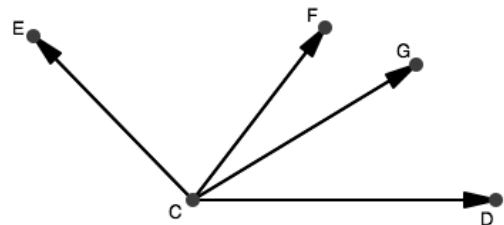
18. Given  $m\angle ABC = 90^\circ$



19. Given:  $\triangle BEC$ ,  $\triangle CED$ , and  $\triangle DAB$  are right triangles.



20. Given:  $\overline{CF}$  bisects  $\angle ECD$ ,  $m\angle ECF = 2x + 10$ , and  $m\angle FCD = 3x - 18$ . Find  $m\angle FCE$ .



Have you answered the question?

This problem asks you to do more than find the value of  $x$ .

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