

Name: Ch. 4.2 Date: 11/12 Thurs Period: _____

Geometry

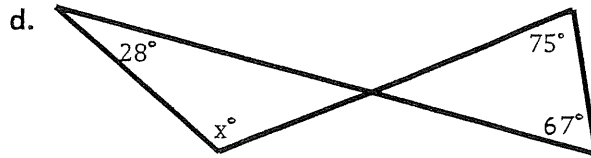
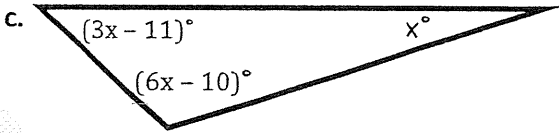
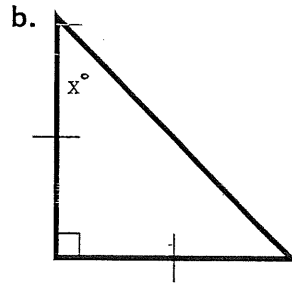
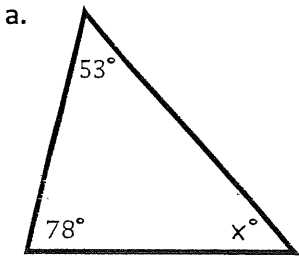
Notes: Interior and Exterior Angles of Triangles

Homework: Attached worksheet

Essential Question: What are the steps to finding the measure of interior and exterior angles of a triangle?

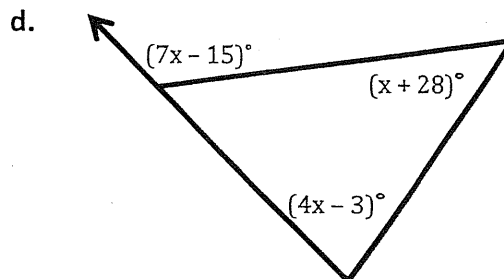
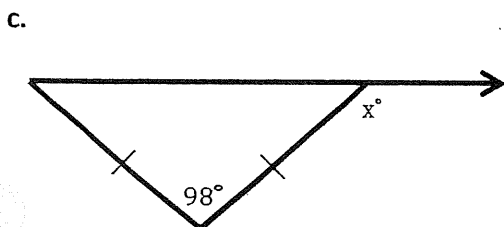
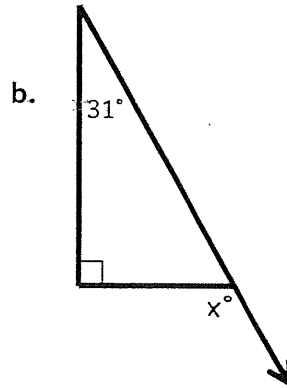
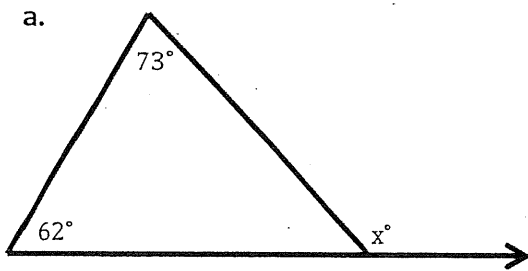
The Triangle Angle Sum Theorem states that the sum of the angles in a triangle is _____.

Examples: Find the value of x .



The Exterior Angle Theorem states that the measure of an exterior angle of a triangle is _____ to the sum of the measures of the two non-adjacent interior angles.

Examples: Find the value of x .

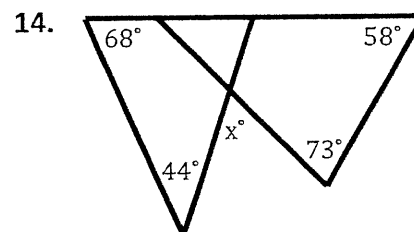
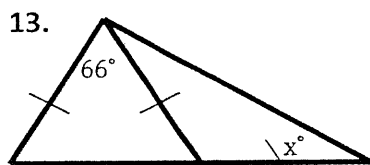
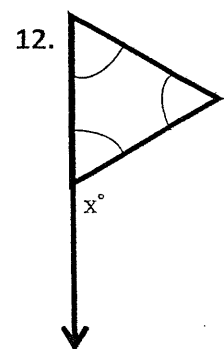
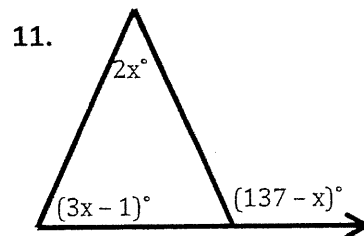
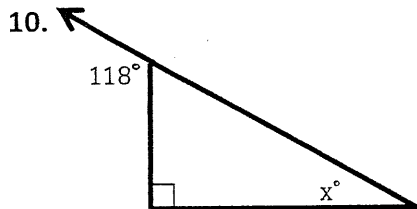
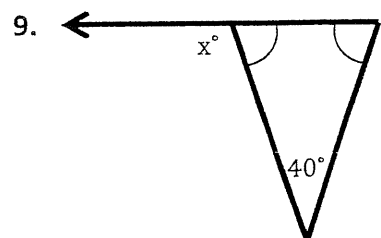
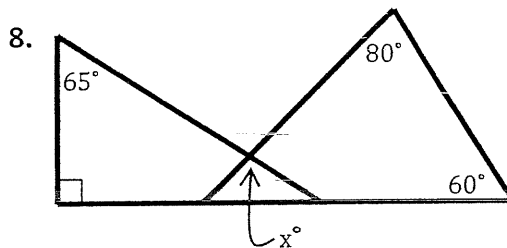
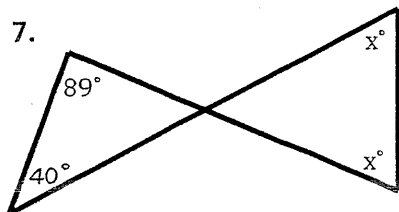
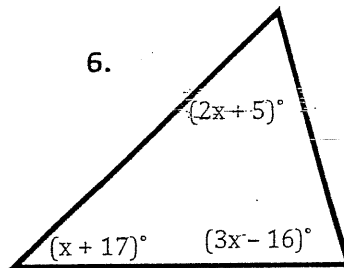
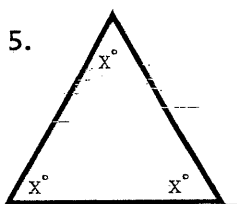
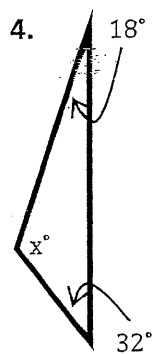
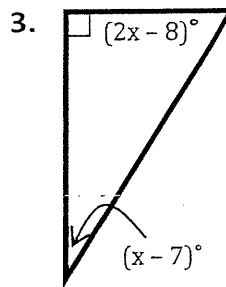
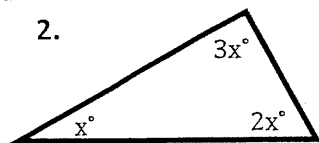
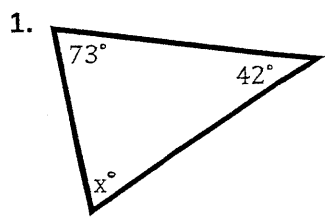


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Geometry

Homework: Interior and Exterior Angles of Triangles

Directions: Find the value of x .



Name: Notes Date: _____ Period: Key

Geometry

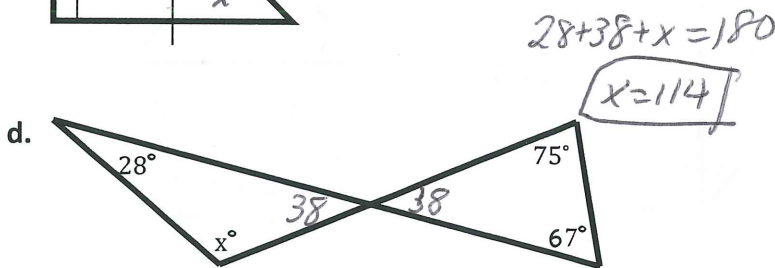
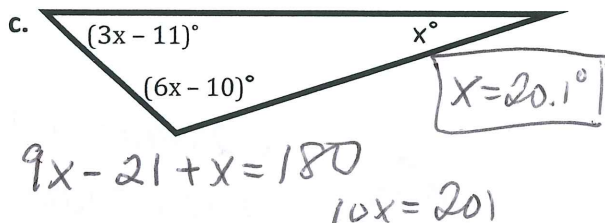
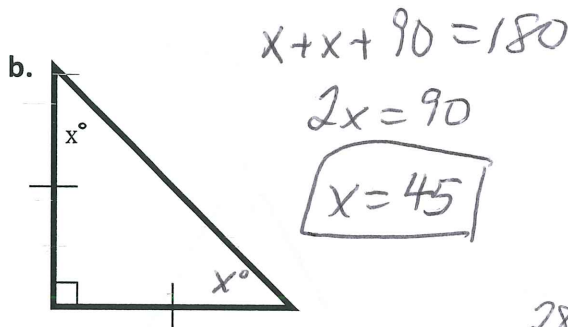
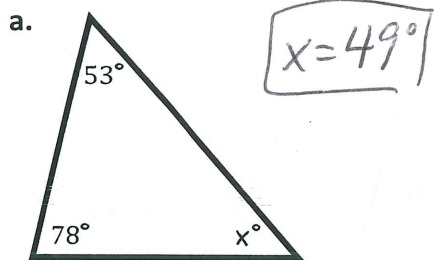
Notes: Interior and Exterior Angles of Triangles

Homework: Attached worksheet

Essential Question: What are the steps to finding the measure of interior and exterior angles of a triangle?

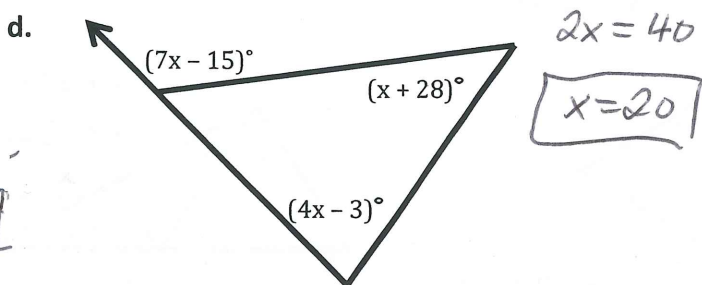
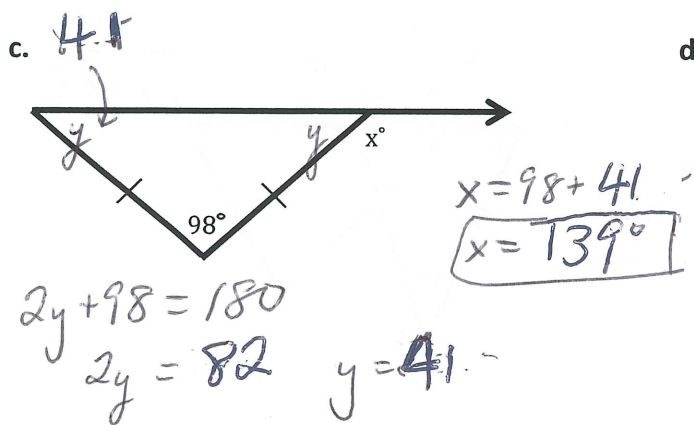
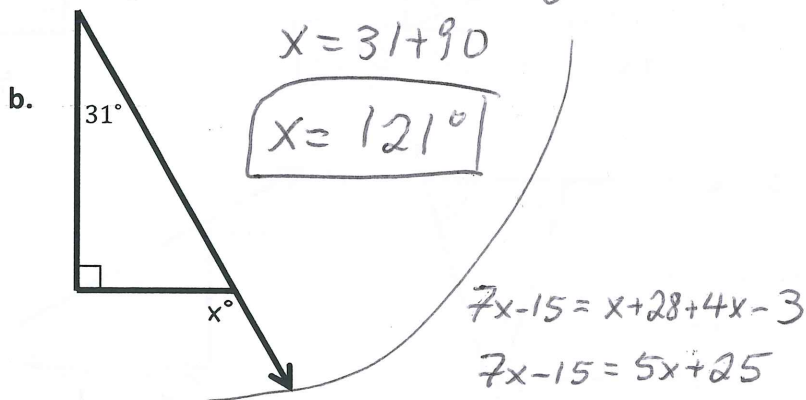
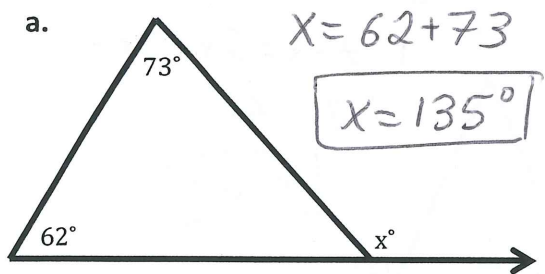
The Triangle Angle Sum Theorem states that the sum of the angles in a triangle is 180° .

Examples: Find the value of x.



The Exterior Angle Theorem states that the measure of an exterior angle of a triangle is equal to the sum of the measures of the two non-adjacent interior angles.

Examples: Find the value of x.

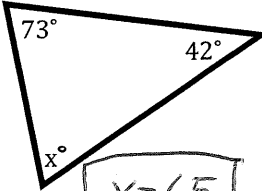


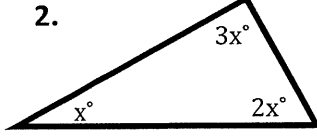
Name: Homework Date: _____ Period: _____

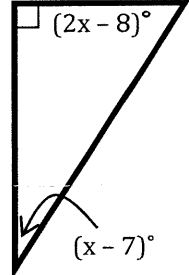
Geometry


Homework: Interior and Exterior Angles of Triangles

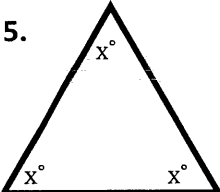
Directions: Find the value of x.

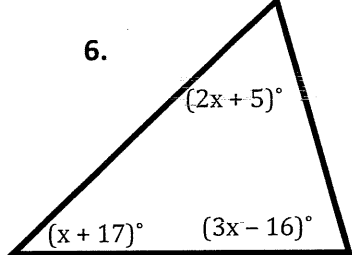
1.  $x = 65$

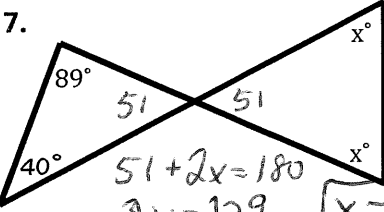
2.  $6x = 180$
 $x = 30$

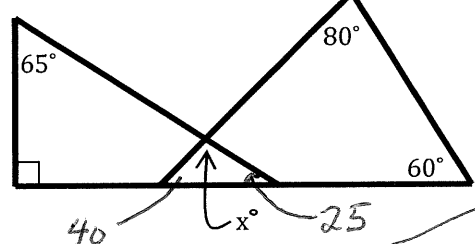
3.  $3x - 15 + 90 = 180$
 $3x - 15 = 90$
 $3x = 105$
 $x = 35$

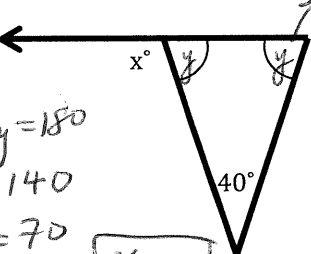
4.  $50 + x = 180$
 $x = 130$

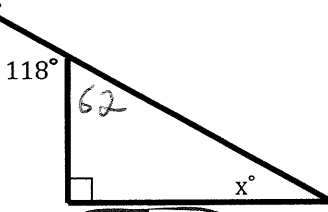
5.  $3x = 180$
 $x = 60$

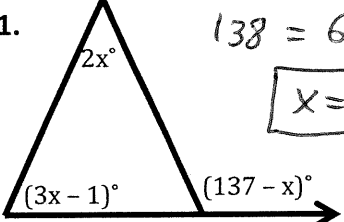
6.  $6x + 6 = 180$
 $6x = 174$
 $x = 29$

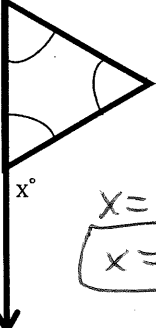
7.  $51 + 2x = 180$
 $2x = 129$
 $x = 64.5$

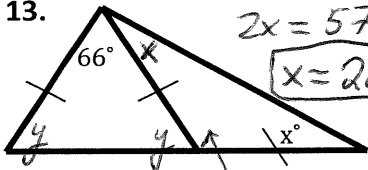
8.  $x + 25 + 40 = 180$
 $x + 65 = 180$
 $x = 115$

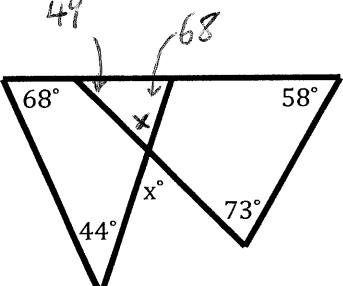
9.  $40 + 2y = 180$
 $2y = 140$
 $y = 70$
 $x = 110$

10.  $137 - x = 2x + 3x - 1$
 $x = 28$

11.  $138 = 6x$
 $x = 23$

12.  $x = 60 + 60$
 $x = 120$

13.  $2x + 123 = 180$
 $2x = 57$
 $x = 28.5$
 $66 + 2y = 180$
 $2y = 114$
 $y = 57$

14.  $x = 63$