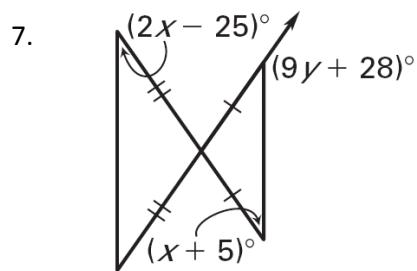
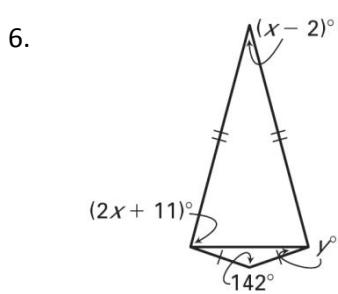
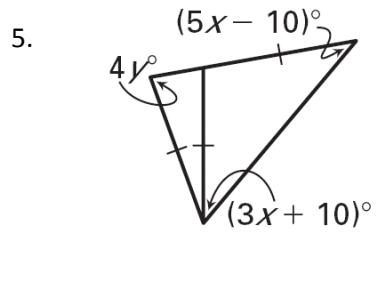
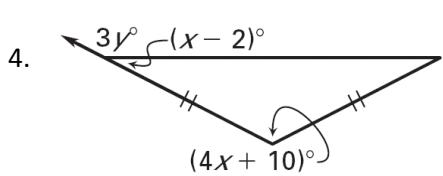
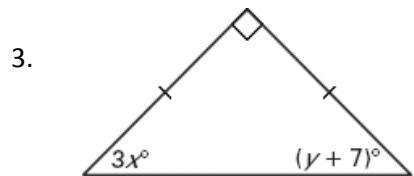
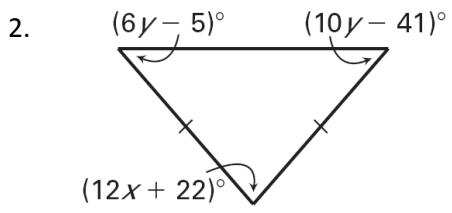
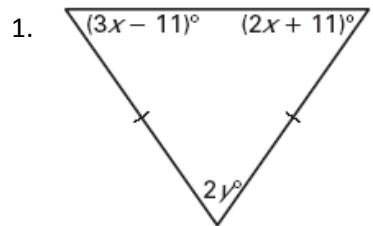


Geometry H
Section 4.7 Extra Practice

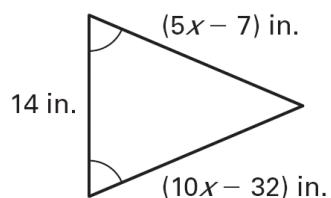
Name : _____
Date : _____ Period : _____

Find the values of x and y.

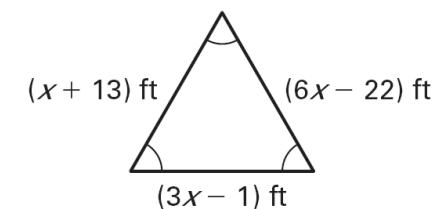


Find the perimeter of the triangle.

8.

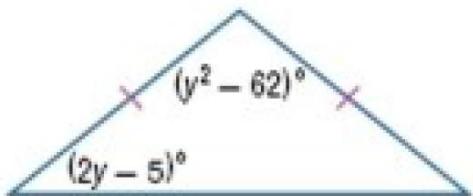


9.

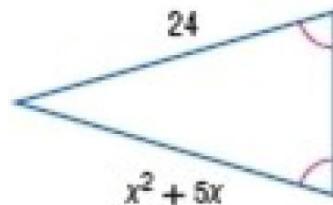


Given the triangles below for #10 –11, please solve for the indicated variable. Be sure to check for extraneous solutions!

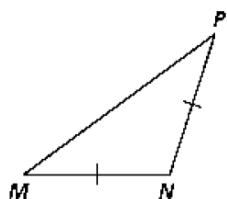
10.



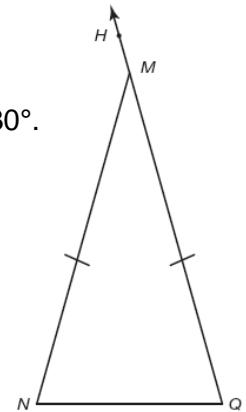
11.



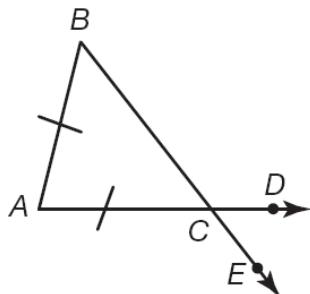
12. $\triangle MNP$ is an isosceles triangle with $\overline{MN} \cong \overline{PN}$. The $m\angle N$ is three times the $m\angle P$. What is the measure of each angle?



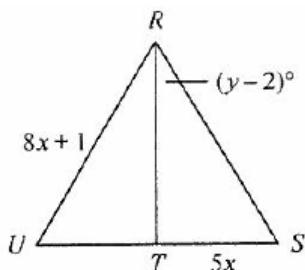
13. In the isosceles triangle shown below, the measure of the exterior angle $\angle HMN$ is 130° . Please find the $m\angle Q$.



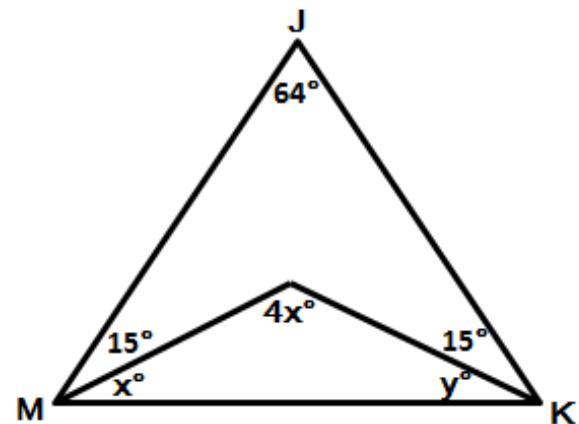
14. In the isosceles triangle show below, $m\angle BAC = 94^\circ$. What is the measure of $\angle DCE$?



15. $\triangle RSU$ is an equilateral triangle. \overline{RT} bisects $\angle URS$ and \overline{US} . Find the values of x and y .



16. Given the diagram below, please solve for x and y .



Answer Key :

1) $x = 22, y = 35$

2) $x = 5, y = 9$

3) $x = 15, y = 38$

4) $x = 29, y = 51$

5) $x = 10, y = 20$

6) $x = 32, y = 19$

7) $x = 30, y = 13$

8) $x = 5, P = 50\text{in}$

9) $x = 7, P = 60\text{ ft}$

10) $y = 14$

11) $x = -8, x = 3$

12) $m\angle P = 36^\circ, m\angle M = 36^\circ, m\angle N = 108^\circ$

13) $m\angle Q = 65^\circ$

14) $m\angle DCE = 43^\circ$

15) $x = \frac{1}{2}, y = 32$

16) $x = 23.5, y = 62.5$