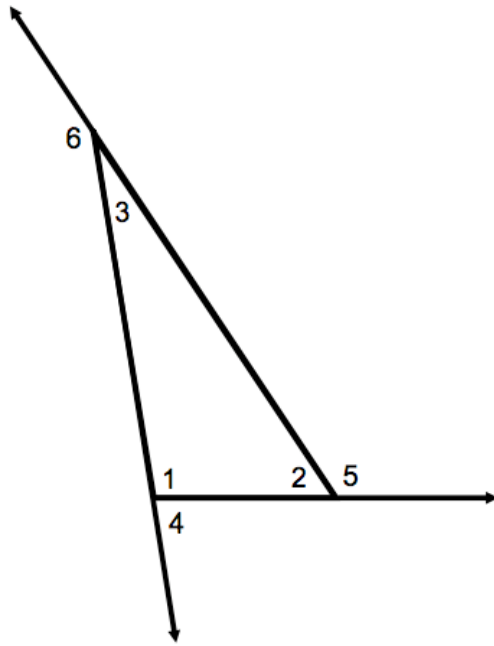


9.2 – The Exterior Angles of a Triangle

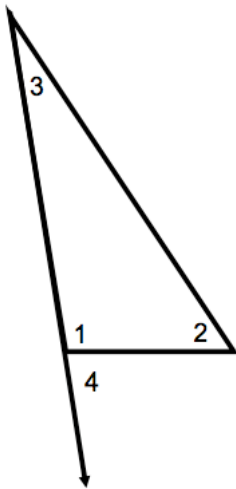
Interior vs Exterior Angles



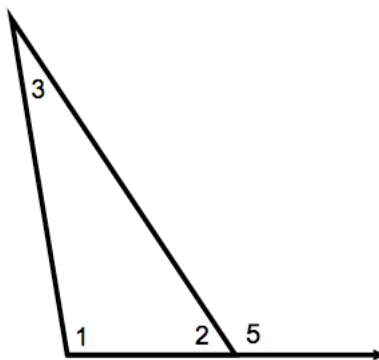
List the interior angles of the triangle:

List the exterior angles of the triangle:

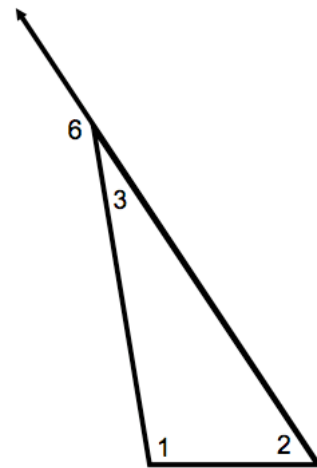
What is an exterior angle equal to?



$$m\angle 4 =$$

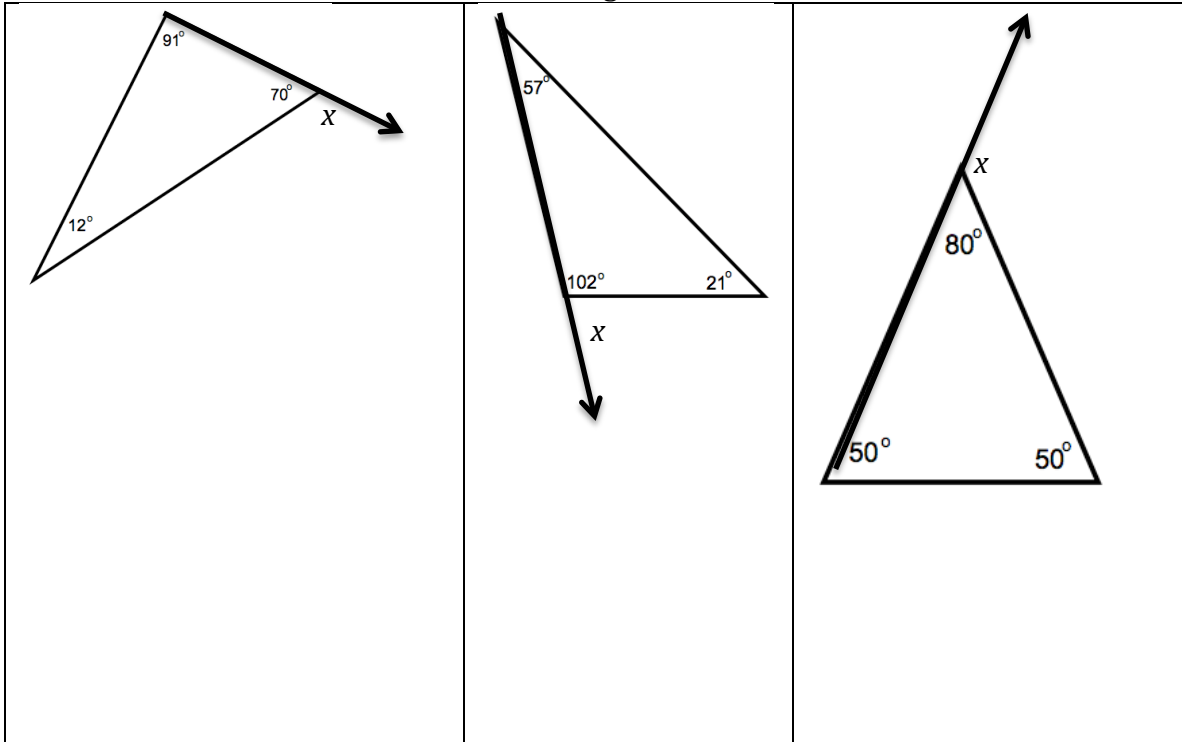


$$m\angle 5 =$$

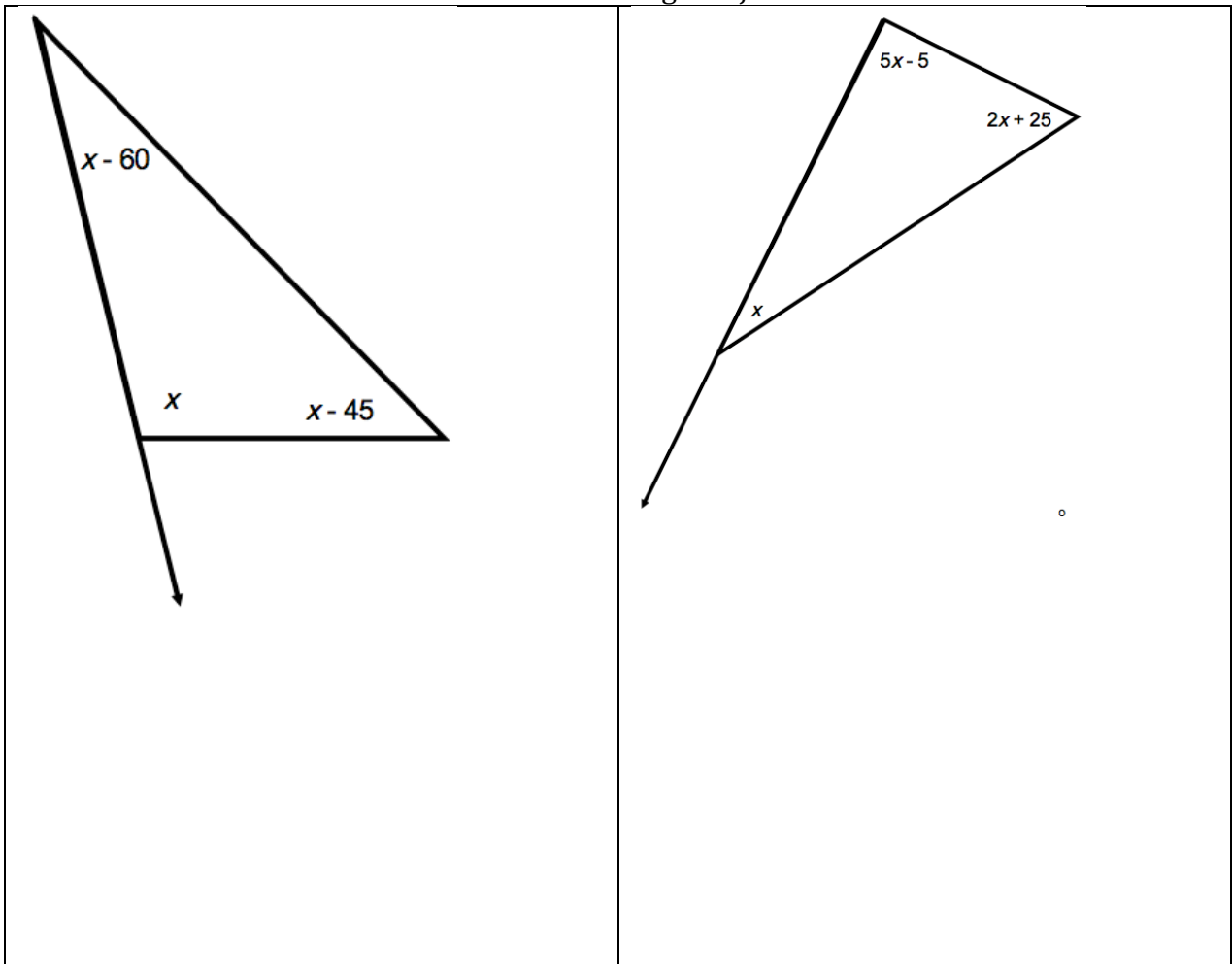


$$m\angle 6 =$$

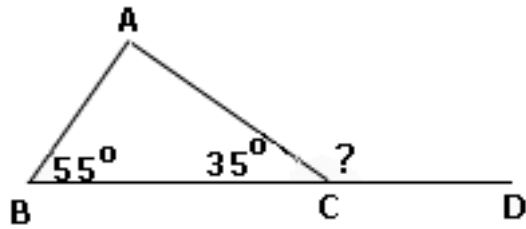
LP#1 – Find the measure of the exterior angle x .



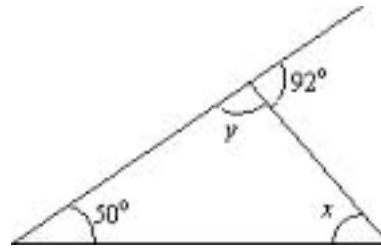
LP#2 - Determine the measure of the exterior angle adjacent to x .



R#1 – Find the measure of the exterior angle.

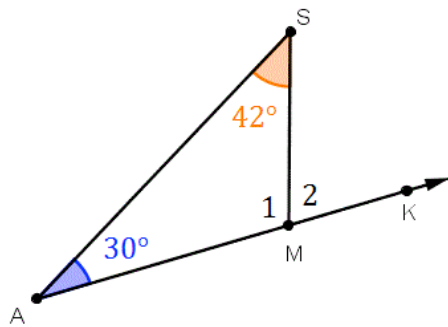


Determine the measure for x and y .

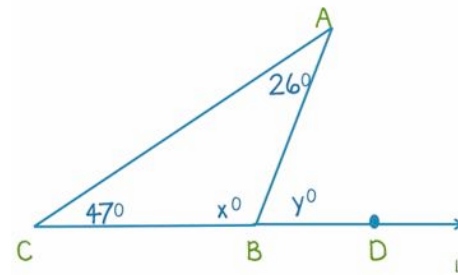


R#2

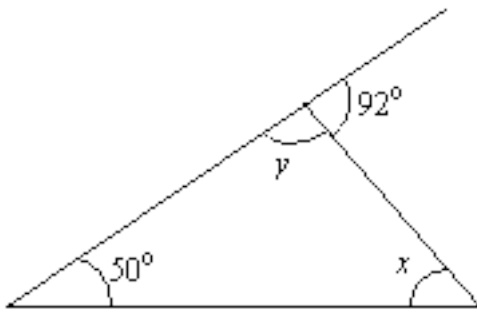
Determine the measure for $\angle 1$ and $\angle 2$.



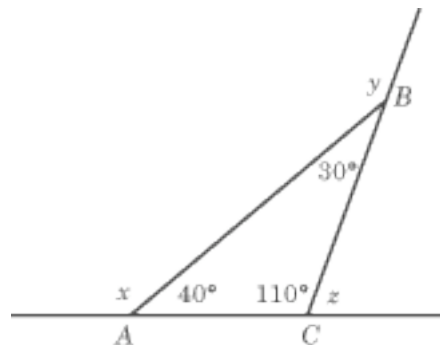
Determine the measure for x and y .



R#3 Determine the measure for x and y .



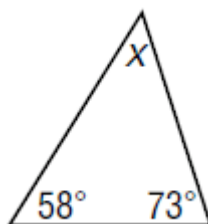
Determine the measure for x , y , and z .



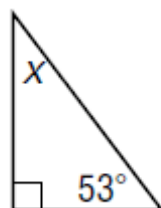
Homework

Directions – a) Draw an exterior angle adjacent to angle x . b) Determine the measure of the exterior angle adjacent to x .

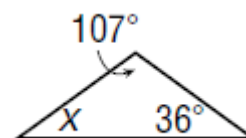
1.



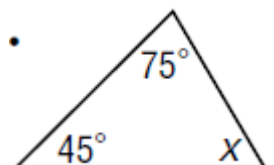
2.



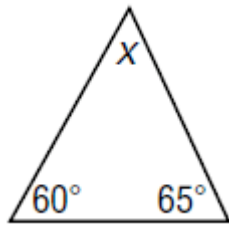
3.



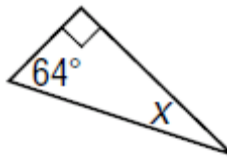
4.



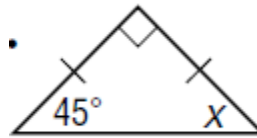
5.



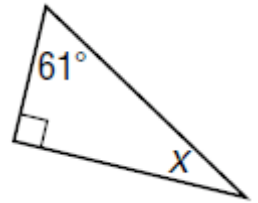
6.



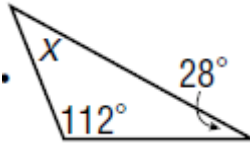
7.



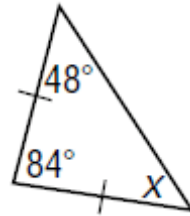
8.



9.

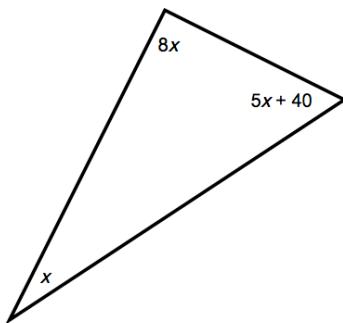


10.

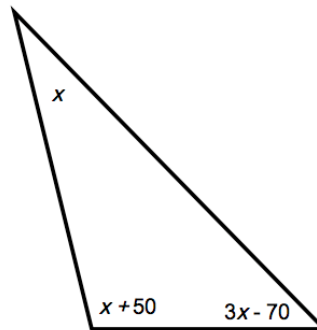


Directions - For #11-15, solve for x .

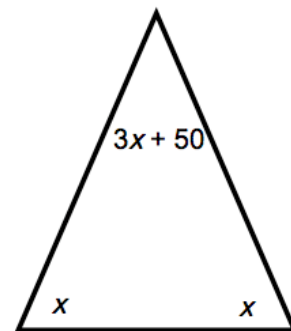
11.



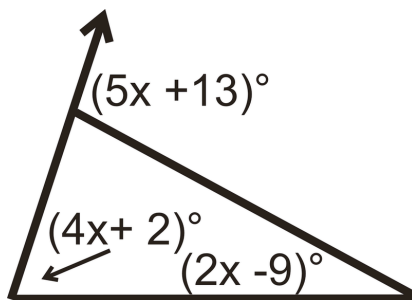
12.



13.



14.



15.

