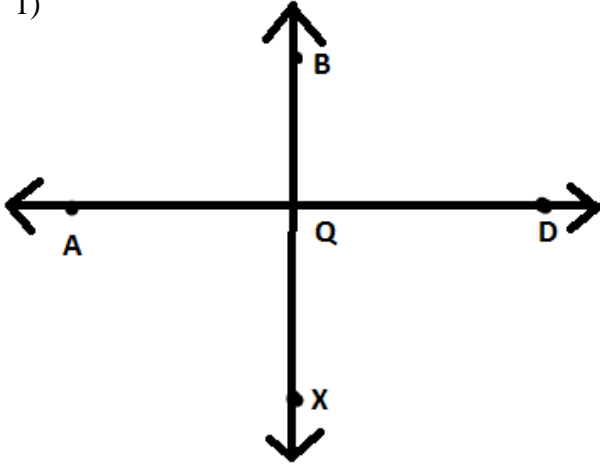


Name: _____
Date: _____
Class: _____

Geometry
Unit 1
HW 1-1

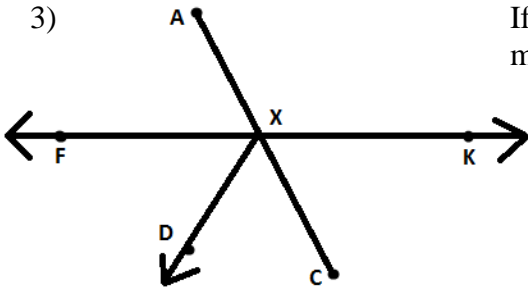
1)



If $m\angle A Q X = 102^\circ$ what is the measure of the other 3 angles with reasons why?

2) Two complimentary angles are represented by $4x + 14$ and $6x + 6$. Find (and explain) the measurement of the larger of these two angles.

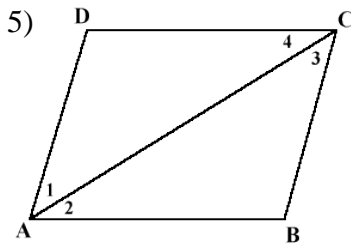
3)



If $m\angle A X K = 10x - 3$, $m\angle F X D = 8x - 31$, and $m\angle D X C$

$= 4x + 5$, find $m\angle AXF$.

4) Using the diagram for #3, if $m\angle KXC = 8x + 25$ and $m\angle AXK = 20x - 4$, find the value of x and explain how you came to this answer.



In this diagram, $m\angle 4 = 3x + 1$, $m\angle 3 = 3x - 5$, and $m\angle DCB = 7x - 15$. If $\angle DCB$ and $\angle CBA$ are supplementary, find the measure of $\angle CBA$.

6) Two angles ($\angle FXP$ and $\angle SXD$) are vertical angles. The $m\angle LXM$ is 6 less than twice $m\angle FXP$. If $m\angle FXP = 9x - 10$ and $m\angle SXD = 7x + 8$, find $m\angle LXM$.

7) $m\angle VPS$ is 4 more than twice the $m\angle SMW$. When you add the measurements of the two angles together the total is 49 degrees. What is the difference between the two angle measurements?