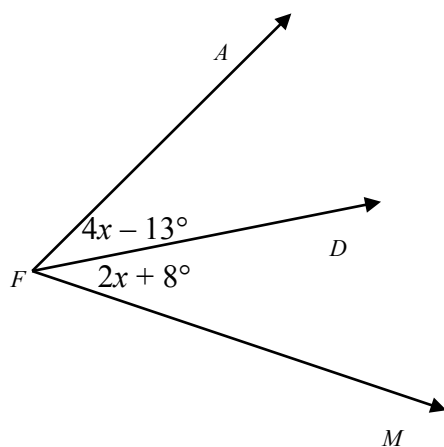


Geometry Accelerated
Chapter 1 Practice

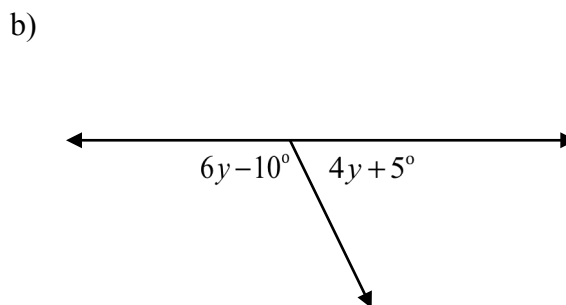
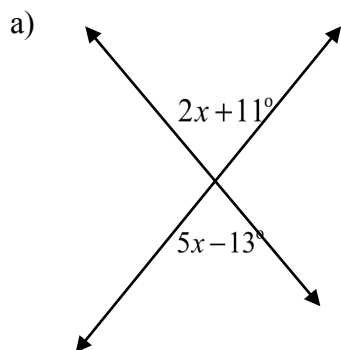
Name: _____

1. Explain what is wrong with the statement $\angle ABC = \angle DEF$. What could you do to correct the statement?

2. Given the illustration of angles below and that \overrightarrow{FD} bisects $\angle AFM$, find the value of x . Use this to find the measures of $\angle AFD$, $\angle DFM$, and $\angle AFM$.



3. Solve for x and y in the diagrams below. (Note: diagrams are not to scale.) In each case indicate what type of angle pair is indicated in the diagram.

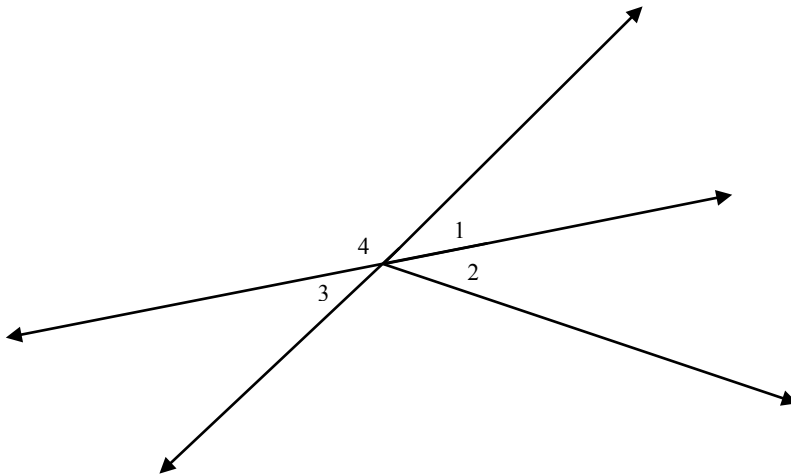


A.M.D.G.

4. Given that the point P is the between E and M , and $EM = 32$ cm, $EP = 6x + 9$, and $PM = 4x + 3$. Find the values of x , EP , PM , and EM . What is the name of the postulate that allows you to set up this equation?



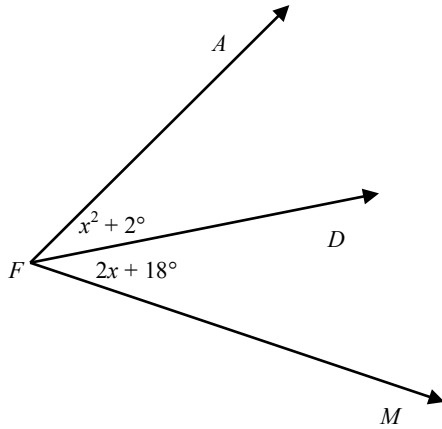
5. Use the illustration below to identify each of the following. (Note: If something appears to be a straight line, you can assume that it is.)



- A linear pair of angles:
- A pair of vertical angles:
- A pair of adjacent angles that are **not** also a linear pair:
- A pair of angles that is neither adjacent nor vertical:

A.M.D.G.

6. Given the illustration of angles below and $m\angle AFM = 68^\circ$, find the value of x . Use this to find the measures of $\angle AFD$, $\angle DFM$, and $\angle AFM$. What is the name of the postulate that allows you to do this?



7. Given that A is the midpoint of \overline{NQ} , and $NA = x^2$ and $AQ = 5x - 4$. Find the value of x , NA , AQ , and NQ .

A.M.D.G.

8. Given M is the midpoint of \overline{AB} , M is at $(2, 8)$ and A is at $(9, -1)$.

a) Find the coordinates of B . Show work and/or draw a diagram.

b) Find the length (distance) of \overline{AB} . Show work and/or draw a diagram.