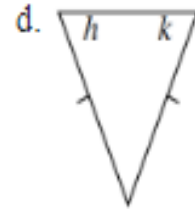
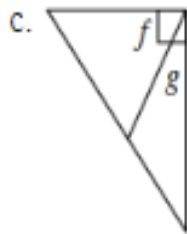
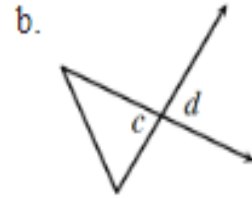
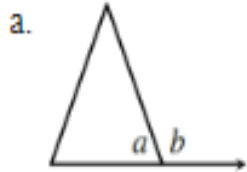


Name: _____

Period: _____ Date: _____

Homework 1.3.1

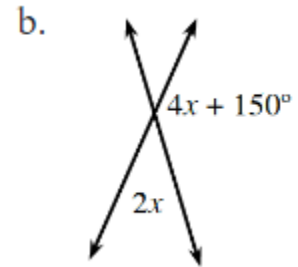
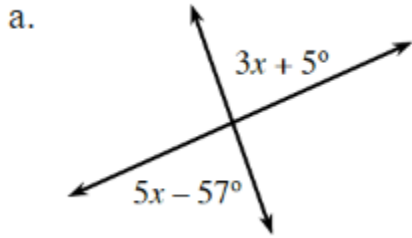
1-75. Examine the diagrams below. For each pair of angles marked on the diagram, quickly decide what angle pair relationship(s) the angles have. You may list more than one relationship for each pair of angles.



1-76. Read the following statements then decide if, when combined, they present a *convincing* argument. You may need to refer to your Polygon Graphic Organizer as you consider the following statements and decide if the conclusion is correct. Be sure to justify your reasoning.

- **Fact #1:** A square has four sides of equal length.
- **Fact #2:** A square is a rectangle because it has four right angles.
- **Fact #3:** A rhombus also has four sides of equal length.
- **Conclusion:** A rhombus is a rectangle

1-77. Examine the diagrams below. What is the angle pair relationship between the labeled angles? Use the relationship to write an equation and solve for X. Then confirm your answer by calculating the angle measures of the labeled angles.



1-78. For the rectangle shown below, write an equation to show that the area as a *product* of the dimensions is equivalent to the area as a *sum* of the tiles. Remember to combine like terms whenever possible

