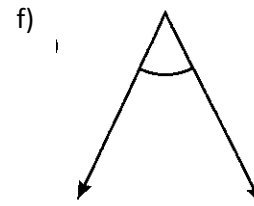
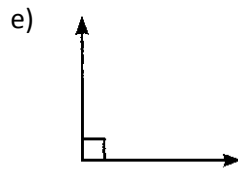
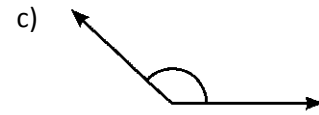
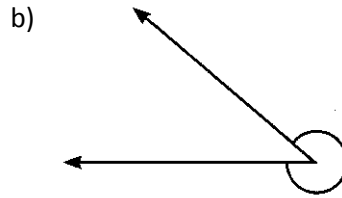
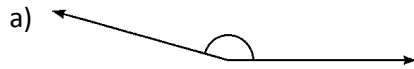


Name: _____

Unit 4 – Geometry

4.7 – Review II

1. Classify each of the following as acute, right, obtuse, straight or reflex angles.



2. Fill in the missing parts in the table.

Angle	Complement	Supplement	Resulting angle after original angle bisected
	71°		
143°			
			56°
		102°	

3. Determine the measures of the indicated angles.

a) $\angle 1 = \underline{\hspace{2cm}}$
 $\angle 2 = \underline{\hspace{2cm}}$
 $\angle 3 = \underline{\hspace{2cm}}$
 $\angle 4 = \underline{\hspace{2cm}}$

$\angle 1 = \underline{\hspace{2cm}}$
 $\angle 2 = \underline{\hspace{2cm}}$
 $\angle 3 = \underline{\hspace{2cm}}$

4. Name the relationship between the indicated pairs of angles. Use the following key to answer each of the questions:

A – alternate interior

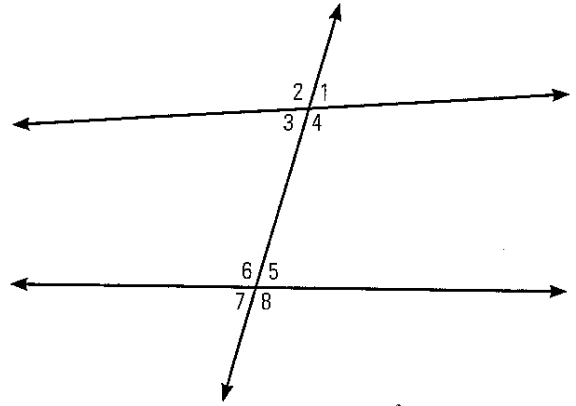
B – corresponding

C – interior on the same side of the transversal

D – alternate exterior

E – exterior on the same side of the transversal

F – vertically opposite



a) $\angle 4$ and $\angle 8$

e) $\angle 3$ and $\angle 6$

i) $\angle 2$ and $\angle 8$

b) $\angle 4$ and $\angle 6$

f) $\angle 2$ and $\angle 7$

j) $\angle 6$ and $\angle 8$

c) $\angle 1$ and $\angle 8$

g) $\angle 3$ and $\angle 5$

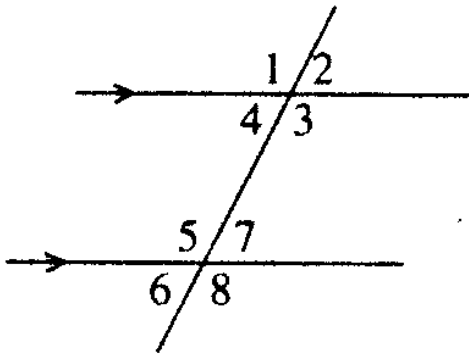
k) $\angle 4$ and $\angle 5$

d) $\angle 3$ and $\angle 7$

h) $\angle 1$ and $\angle 5$

l) $\angle 2$ and $\angle 6$

5. Indicate which of the following pairs of angles are either **congruent** (equal) or **supplementary**.



d) $\angle 1$ and $\angle 3$

e) $\angle 3$ and $\angle 7$

f) $\angle 1$ and $\angle 5$

a) $\angle 1$ and $\angle 6$

g) $\angle 3$ and $\angle 6$

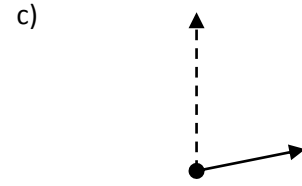
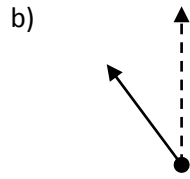
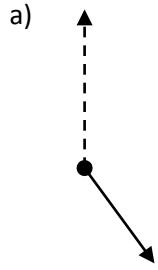
b) $\angle 2$ and $\angle 8$

h) $\angle 2$ and $\angle 7$

c) $\angle 5$ and $\angle 7$

i) $\angle 4$ and $\angle 6$

6. What is the true bearing from A to B?



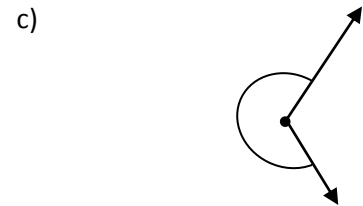
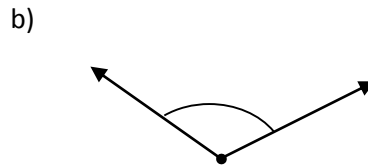
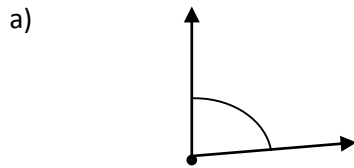
7. What is the true bearing of the following directions?

a) E

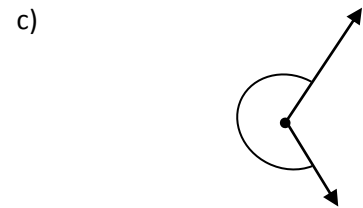
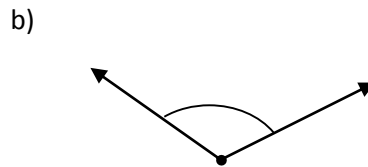
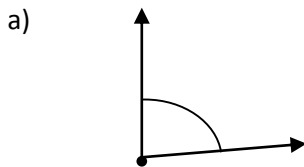
b) NW

c) NNE

8. A. **Bisect** the following angles using a *protractor*. What is the measure of the bisected angle?



B. **Bisect** the following angles using a *compass*.



9. The lengths of the sides of a quadrilateral are 4", 8", 12" and 16". Calculate the lengths of the sides of a similar quadrilateral if its longest side is 3'. (answer to the nearest *hundredth*)

10. If $\triangle FLD \sim \triangle MXQ$, determine which sides and angles correspond to the following.

a) $MQ =$

d) $\angle Q =$

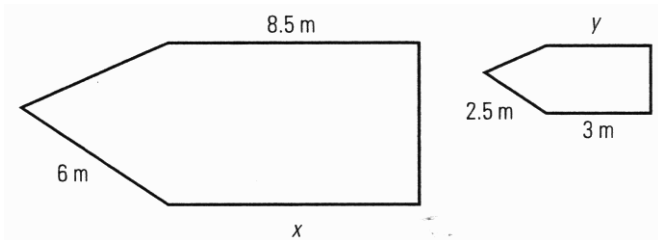
b) $\angle L =$

e) $QX =$

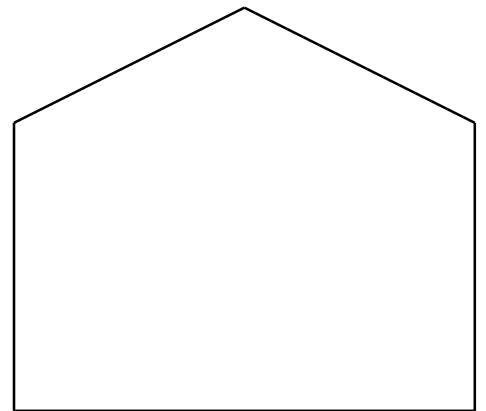
c) $FL =$

f) $\angle M =$

11. Given that the two figures shown are similar, determine the values of x and y .



12. Reduce the following shape by a scale factor of $\frac{3}{4}$ using the **ratio method**.



13. Enlarge the following shape by a scale factor of 1.5 using the **parallel method**.

