Name: _____

Unit 4 – Geometry
4.7 – Review I

1. Sketch <u>one</u> example of an angle for each of the following definitions:

Acute   **Obtuse**   **Right**   **Straight**

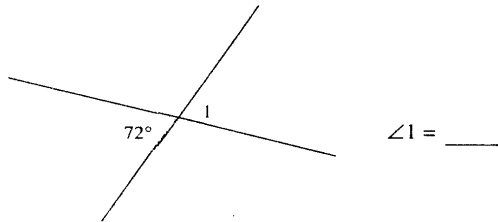**Reflex**   **Complementary**   **Supplementary**   **Vertically Opposite**
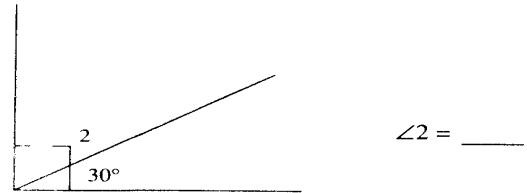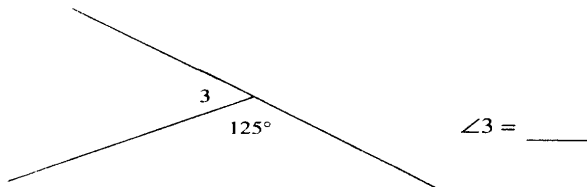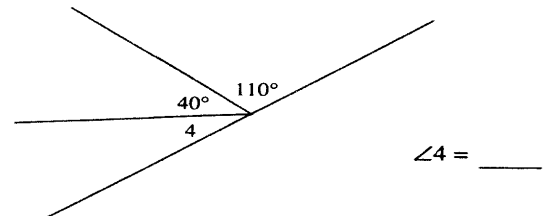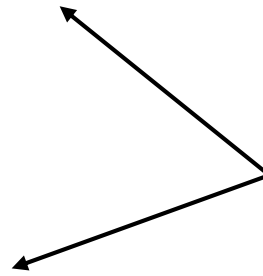
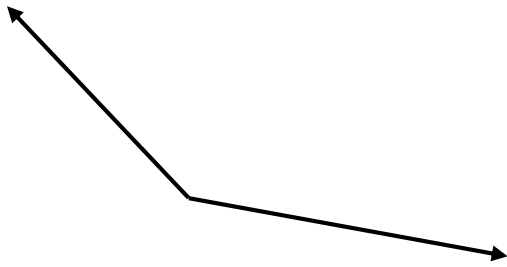2. Find the measures of the missing angles:

1.

72°   1

$\angle 1 =$ _____

2.

2

30°

$\angle 2 =$ _____

3.

3

125°

$\angle 3 =$ _____

4.

40°   110°

4

$\angle 4 =$ _____

3. Use a **protractor** to **measure** the following angles:
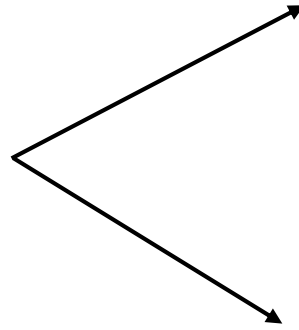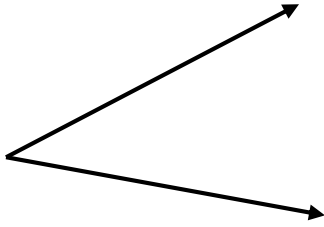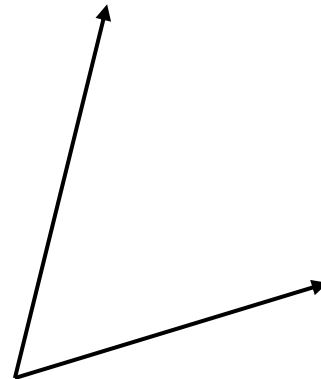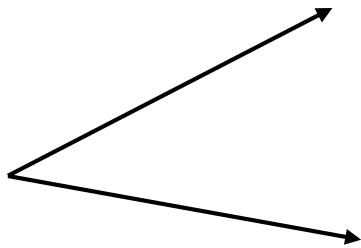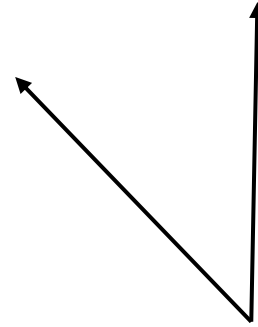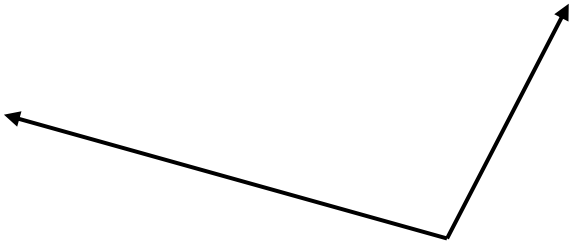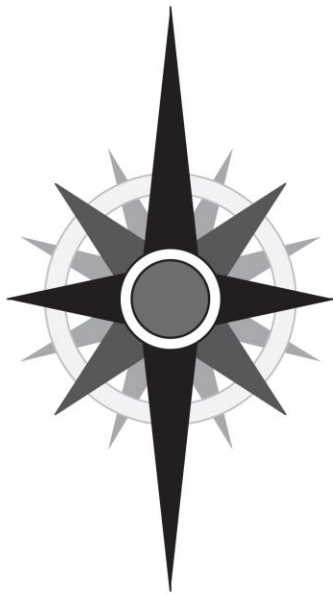
4. Use a **protractor** to **BISECT** the following angles:
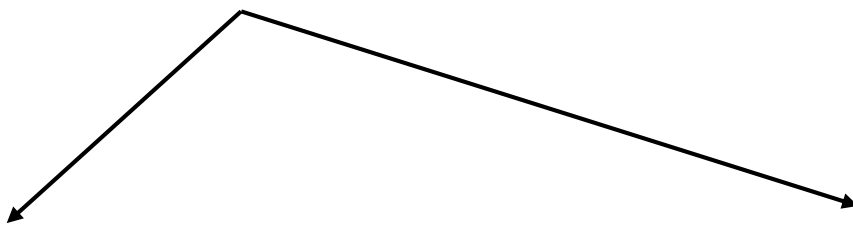
5. Use a compass to **BISECT** the following angles:

6. Label the diagram below with all 16 bearing names and calculate the true bearing for the ones indicated:
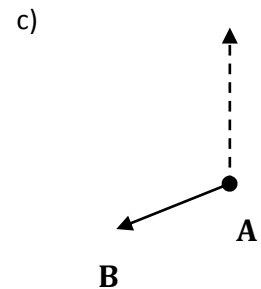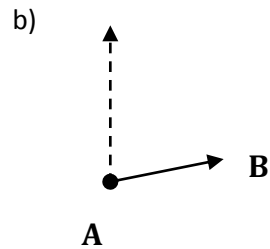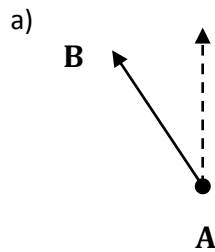
| a. ENE | b. SSW | c. WSW |

| d. ESE | e. NNE | f. SSE |

| g. NNW | h. NE | i. S |

7. Determine the true bearings between A and B, using a protractor.

a)

B

A

b)

B

A

c)

A

B

8. Name an angle that is:

- Vertically opposite to angle 3

- Corresponding to angle 5

- Alternate interior to angle 4

- Interior on the same side of transversal to angle 7

- Corresponding to angle 6

- Alternate interior to angle 5

- Exterior on the same side of transversal to angle 8 and 2
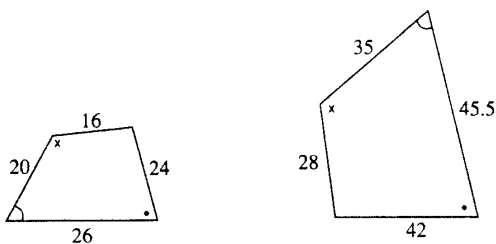
- Alternate exterior to angle 6 and 8
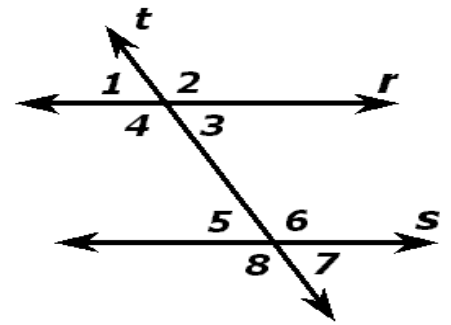
9. Determine the measures of ALL the angles you can find in the diagram below:
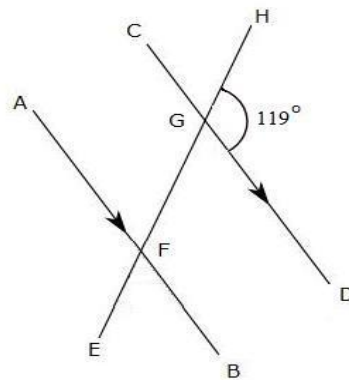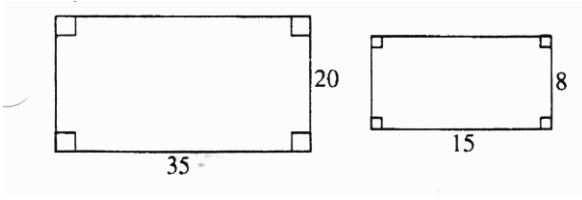
10. If $ABCDEF \sim GHIJKL$, determine the correct corresponding angles and sides for the ones given below:

a. $\angle A$ = _____

b. $\angle J$ = _____

c. $\angle F$ = _____

d. $\angle H$ = _____

e. AB = _____

f. DE = _____

g. IJ = _____
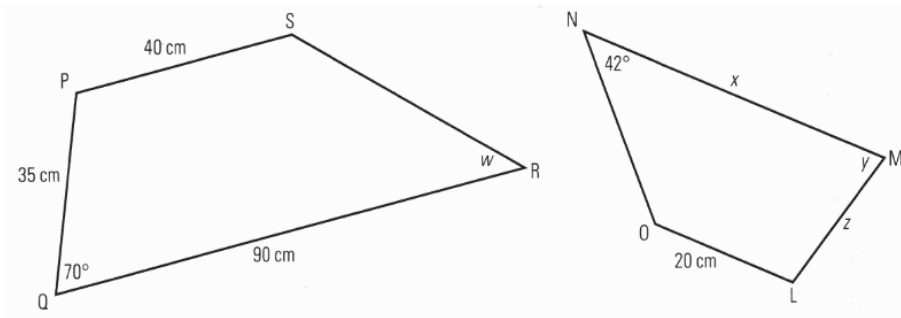
h. HI = _____

10. Determine if the following shapes are similar. Show all your work.

11. Are the following shapes similar or not? Explain your answer.

12. Given, $QPSR \sim MLON$, find the measures of angles w and y and the sides SR and ON
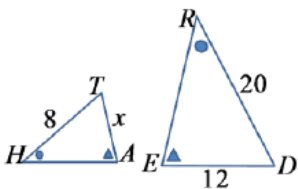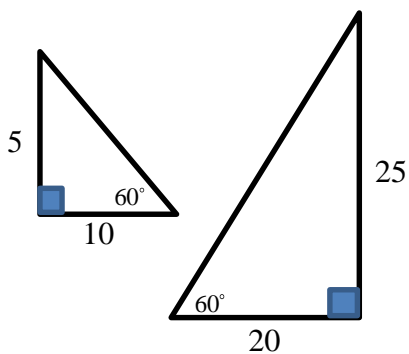

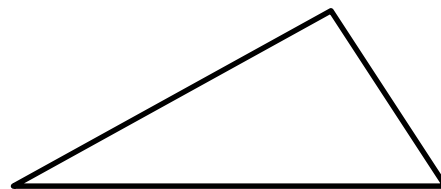$w =$

$y =$

$SR =$

$ON =$

14. Given that the following triangles are similar, find the value of x.

15. Are the following triangles similar? Explain your answer.

16. Reduce the following shape by a scale factor of $\dfrac{1}{4}$.

17. Enlarge the following shape by a scale factor of 3.