GEOMETRY

Quiz # 4

Name: _____ Date: _____ Score: _____

I. MULTPLE CHOICES: Encircle the letter of the best answer.

1. It is a segment or a ray that cuts an angle into two congruent angles.

a. segment bisector c. angle bisector
b. line d. ray

2. Given that ∠R ≅ ∠A. If m∠R = 98° and m∠A = 2x + 6, then what is the value of x?

a. 41 c. 46
b. 98 d. none of these

3. The vertex of ∠GEO is located at the origin. Point G is located at (5, 0) and point O is located at (0, 7). How can ∠GEO be classified?

a. acute c. right
b. obtuse d. straight

4. In the figure below, if m∠BAC = 56°, what must be the measure of ∠ BAD in order for ray AC to be an angle bisector?

a. 28°
b. 112°
c. 56°
d. 90°

5. What is the vertex of ∠ KFC?

a. K c. F
b. C d. X

II. Use the figure below to answer the following.

A. Name the vertex of each angle.

1. ∠ 2 2.∠ 5

3. ∠ ACF 4. ∠ KEC

B. Name the sides of each angle.

1. ∠ 1 2.∠ 3

3. ∠ 4 4. ∠ KDC

C. Write another name for each angle.

1. ∠ GCA 2. ∠ KEF

3. ∠HBI 4. ∠ HCF

D. If ray BI bisects ∠ JBH, and m∠ JBI = 4x + 15 and m∠ HBI = 6x – 5, then what is the m∠ JBH?

III. Classify each angle as RIGHT, ACUTE, or OBTUSE. Then use a protractor to measure the angle to the nearest degree.

1. ∠ UZW

2. ∠ YZW

3. ∠ TZW

4. ∠ UZT