OUIZ 4

Plane Geometry

Sections 1.11–1.14 (–8 each)

COMPLETION: Write the correct answer in the blank at the left.

<u>scalene</u>

1. A triangle with no two sides equal is __?_.

equiangular ___

2. A triangle with all three angles equal is __?_.

isosceles

3. A triangle with two sides equal is __?__.

___seven

4. A polygon that has seven sides will have __? __interior angles.

<u>hypotenuse</u>

5. The side opposite the right angle in a triangle is called the __?__.

legs

6. The perpendicular sides of a right triangle are called __?__.

regular

7. A polygon that is both equilateral and equiangular is called a(n)? polygon.

____ten

8. A twelve-sided polygon will contain __? straight angles in the sum of its interior angles.

<u>nine</u>

9. A regular polygon that has a central angle of 40° has __? sides. Show your work.

$$\theta = \frac{360^{\circ}}{n}$$
, $40^{\circ} = \frac{360^{\circ}}{n}$, $n = \frac{360^{\circ}}{40^{\circ}} = 9$

144°

The measure of each interior angle of a ten-sided regular polygon is ? degrees. Show your work.

angle =
$$\frac{(n-2)180^{\circ}}{n} = \frac{(10-2)180^{\circ}}{10} = 144^{\circ}$$