**—**E









m∠VWY= °

809

m∠*P* = \_\_\_\_°



- 7. The sum of the angle measures of a quadrilateral is \_\_\_\_\_°.
- 8. The acute angles of a \_\_\_\_\_\_ triangle are complementary.
- 9. The measure of an angle of a triangle is equal to the sum of the measures of its remote interior angles.
- 10. The angle measures of a triangle are a, 3a, and 5a. Tell the measure

of each angle. \_\_\_\_\_°, \_\_\_\_\_°, \_\_\_\_\_°

11. You know that one of the exterior angles of an isosceles triangle is

140°. The angle measures of the triangle could be \_\_\_\_\_°-\_\_\_\_°-

\_\_\_° or \_\_\_\_°-\_\_\_\_°.

## **MODULE 7 Properties of** Triangles

## **LESSON 7-1**

## Practice and Problem Solving: A/B

- 1. 115°
- 2.70°
- 3.60°
- 4.65°
- 5. 35°
- 6. 120°
- 7.360°
- 8. right
- 9. exterior
- 10.20,60,100
- 11. 40, 40, 100 or 40, 70, 70

## Practice and Problem Solving: C

1. Quadrilateral:

a + b + c = 180; d + e + f = 180;Sum of interior angles of quadrilateral = a + b + c + d + e + f = (2)180 = 360



Pentagon: a + b + c = 180; d + e + f = 180;g + h + i = 180; Sum of interior angles of pentagon = a + b + c + d + e + f +g + h + i = 3(180) = 540





extended