

Understanding Quadrilaterals

Topic: Quadrilaterals

Name: Date:

1. The sum of the interior angles of a polygon is three times the sum of its exterior angles.

Determine the number of sides of the polygon.

2. Determine the number of sides of a polygon whose exterior and interior angles are in the ratio 1 : 5.

3. PQRSTU is a regular hexagon, determine each angle of ΔPQT .

°

Find the number of sides of a regular polygon, when each of its angles has a measure of:

4. 160° 5. 135° 6. 175° 7. 162° 8. 150°

9. A quadrilateral has three acute angles, each measures 80° . What is the measure of the fourth angle?

°

10. In a quadrilateral ABCD, the measure of the three angles A, B and C of the quadrilateral 110° , 70° and 80° respectively. Find the measure of the third angle.

°