Name	_ Date
6.1 – Angles	in Polygons
Find the sum of the angle measure of each polygon.	



Find the measure of one angle in each regular polygon. Round to the nearest tenth if necessary.



Find the missing angle measures. Show all algebraic work.







Find the missing variables.











28) What is the sum of the measures of a set of exterior angles of a decagon?



29) Four exterior angles of a pentagon measure 63°, 67°, 58°, and 64°. What is the measure of the remaining exterior angle?

- 30) What is the measure of each exterior angle of a regular hexagon?
- 31) How many sides does a regular polygon have if each exterior angle measures 24°?

- 32) What is the sum of the measures of the interior angles of a dodecagon?
- 33) How many sides does a polygon have if the sum of its interior angle measures is 7380°?

- 34) What is the measure of each interior angle of a regular octagon?
- 35) How many sides does a regular polygon have if each of its interior angles measures 165°?