FM Geometry Name: Key

Chapter 3 Review Date: _____ Pd: _____

If a transversal is perpendicular to one of two parallel lines, then it is ⊥ to the other one also.

Through a point outside a line, there is exactly one line parallel to the given line.

Through a point outside a line, there is exactly one line perpendicular to the given line.

Two coplanar lines perpendicular to the same line are parallel to each other.

Two lines parallel to a third line are parallel to each other.

Name all of the ways to prove two lines are ***parallel***.

1. Corr. ∠s Converse
2. Alt. Int. ∠s Converse
3. S-S Int ∠s Converse
4. Alt. Ext. ∠s Converse
5. SS Ext. ∠s Converse
6. Two coplanar lines ⊥ to the same line are parallel to each other.
7. Two lines parallel to a 3rd line are parallel to each other.

The sum of the measures of the angles of a triangle is 180°.

The sum of the measures of the angles of a quadrilateral is 360°.

If two angles of one triangle are congruent to two angles of another triangle, then the 3rd angles are congruent.

The measure of an exterior angle of a triangle equals the sum of the measures of the two remote int. ∠s.

The acute angles of a right triangle are complementary.

An interior and exterior angle of a polygon are supplementary.

Interior Angles Theorem: $I_{sum} = (n-2)180^\circ$ Exterior Angles Theorem: $E_{sum} = 360^\circ$

1 interior angle of a regular polygon = $\frac{(n-2)180^\circ}{n}$

1 exterior angle of a regular polygon = $\frac{360^\circ}{n}$