

Integrated math 2 – chapter 4 terms



**ASSIGN
BUSTER**

Angle-Angle Similarity Theorem If two angles of one triangle are congruent to two angles of another triangle, then the triangles are similar.

Side-Side-Side Similarity Theorem If the corresponding sides of two triangles are

proportional, then the triangles are similar. ONINTEGRATED MATH 2 -

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Now **Side-Angle-Side Similarity Theorem** If two of the corresponding sides of

two triangles are proportional and the included angles are congruent, then

the triangles are similar. **Angle bisector/Proportional Side Theorem** A bisector

of an angle in a triangle divides the opposite side into two segments whose

lengths are in the same ratio as the lengths of the side adjacent to the angle.

Triangle Proportionality Theorem If a line parallel to one side of a triangle

intersects the other two sides, then it divides the two side proportionally.

Converse of the Triangle Proportionality Theorem If a line divides two sides of

a triangle proportionally, then it is parallel to the third side. **Proportional**

Segments Theorem If three parallel lines intersect two transversals, then they

divide the transversals proportionally. **Triangle Midsegment Theorem** The

midsegment of a triangle is a parallel to the third side of the triangle and half

the measure of the third side of the triangle. **Right Triangle/Altitude**

Similarity Theorem If an altitude is drawn to the hypotenuse of a right

triangle, then the two triangles formed are similar to the original triangle and

to each other. **Right Triangle Altitude/Hypotenuse Theorem** The measure of

the altitude drawn from the vertex of the right angle of a right triangle to its

hypotenuse is the geometric mean between the measures of the two

segments of the hypotenuse. **Right Triangle Altitude/Leg Theorem** If the

altitude is drawn to the hypotenuse of a right triangle, each leg of the right

triangle is the geometric mean of the hypotenuse and the segment of the hypotenuse adjacent to the leg.