

# Download Study Guide Triangle Inequality Theorem

In this lesson, we will use definitions and proofs to learn what the triangle inequality theorem is, why it works, and how to use it to determine if three given line segments can form a triangle. Learn about the midsegment of a triangle and the way in which it's found. Read about the properties of the midsegment as they relate to the base, angles, perimeter and area, and then test your ...

Properties of All Triangles A triangle is a three-sided shape whose three inner angles must sum to  $180^\circ$ . The largest angle will be across from the longest side while the smallest angle will be across from the shortest side of the triangle.

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