

Spotlight On: Goal Setting

It is really difficult to get somewhere if you do not know where you want to go. Throughout the year, students have been setting goals for their mathematical journey in their journals. They have probably reached or exceeded some goals and are still working on others. This is all part of the journey. Now might be a great time to check in and ask your student what their goals are for the rest of this school year!

The Big Picture

Growing From

Integers;
Properties of triangles;
Transformations

Working On

Irrational numbers;
Right Triangle Theorem;
Angle relationships

Growing To

Geometric proofs;
Complex numerical operations

Need Help?

Methods & Meanings boxes are included in the Mathematician's Notebook as reference.

7.1.2: Angle Vocabulary

7.1.3: Parallel Lines and Angle Pairs

7.1.4: Triangle Sum Theorem

7.1.5: The Exterior Angle Theorem for Triangles

7.2.1: Angle–Angle Triangle Similarity Theorem

7.2.3: Right Triangle Theorem

7.2.4: Squaring and Square Roots

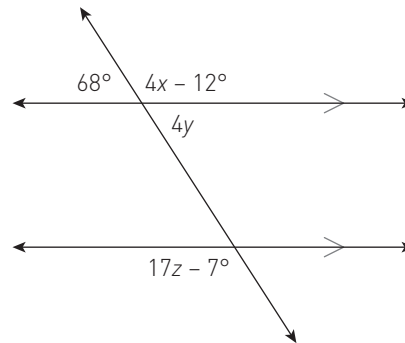
7.2.5: The Real Number System

Current Topics

In this chapter, your student will explore the relationships between the angles on the inside and outside of triangles and the angles formed when a third line crosses two parallel lines. Then, they will investigate relationships between the side lengths of right triangles and develop proofs of the Right Triangle Theorem.

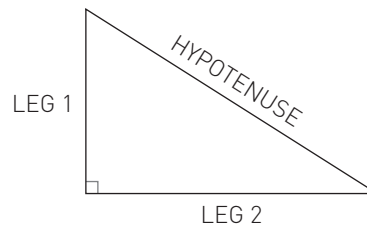
Angles (Section 7.1)

In Section 7.1, students will explore the angle relationships formed when a transversal (the diagonal line shown) cuts two parallel lines. Students continue to use these angle relationships to establish the Triangle Sum Theorem and the Exterior Angle Theorem.



Right Triangle Theorem (Section 7.2)

Section 7.2 focuses on the Right Triangle Theorem and irrational numbers. Students continue their explorations of triangles from Section 7.1 to investigate the relationships between the side lengths of right triangles and to formalize the Right Triangle Theorem. Then, students explore multiple proofs of the Right Triangle Theorem and apply it to three-dimensional real-world contexts.



Try This at Home!

Angles are everywhere. You can see angles in nature, in human designs, and in use at your local hardware store. Talk with your student about angles you see in the real world and ask what type of angles they see.

