

Sample Accelerated Geometry Assignment Sheet

Learning Targets

1. Find segment lengths using the altitude to hypotenuse relationships.
2. Know, identify, and use Pythagorean triples.
3. Apply the Pythagorean Theorem.
4. Find segment lengths in special right triangles (45° - 45° - 90° and 30° - 60° - 90°).
5. Apply the properties of right triangles to pyramids and prisms.

In addition to the learning targets, students should be able to:

- Apply multiple learning targets in a problem-solving situation that goes beyond the basic scope of the learning target.
- Reflect on the problem solving process and clearly describe the results using correct mathematical language.

Required Problems

These problems must be completed. They will be graded for homework points.

Directions:

- Show your work.
- Make your graphs or diagrams clear and accurate.
- Check your answers for odd numbers in the back of the book.

Suggested and Additional Problems

These problems are optional to complete. They will not be graded for homework points, but they will help you with the learning targets and homework.

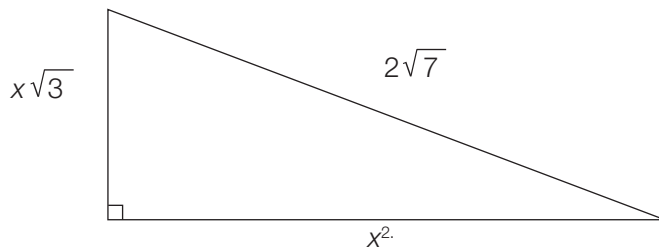
Learning Targets	Pages	Problems
1. Altitude to hypotenuse	Required problems: p. 379	16, 21
	Suggested problems: p. 379	1, 4
	Additional problems	A
2. Pythagorean triples	Required problems: p. 401	5, 8, 10, 16
	Suggested problems: p. 401	1, 2, 3, 4, 12
3. Pythagorean Theorem	Required problems: p. 387	5, 13, 14, 16, 17, 18
	Suggested problems: p. 387 p. 401	2, 3, 4, 7, 23 18, 21
	Additional problems	B, C
Quiz tentative date: February 15		

Learning Targets	Pages	Problems
4. Special right triangles	Required problems: p. 408	3, 4, 15, 16, 22, 25
	Suggested problems: p. 408	3, 4, 6, 7, 19
5. Prisms	Required problems: p. 414	3, 4, 15, 16, 22, 25
	Suggested problems: p. 414	3, 4, 6, 7, 19
6. Prisms	Required problems: p. 414	2, 13, 16
	Suggested problems: p. 414	1, 15
7. Pyramids	Required problems: p. 414	5, 6, 17
	Suggested problems: p. 414	3, 14
Quiz tentative date: February 24		
Cumulative test tentative date: February 29		

Additional Problems

A. The legs of a right triangle are 12 and 9. Find the length of the altitude to the hypotenuse.

B. Solve for x .



C. Solve for x .

