

Name: _____ Period: _____

Unit 4 Lesson 5 Classwork

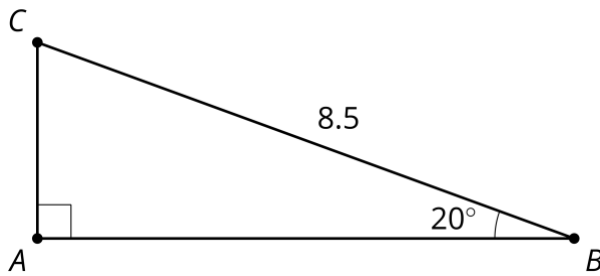
Lesson 5: Working with Ratios in Right Triangles

5.2: Pythagorean Triples

1. Sketch the triangle with side lengths 7, 24, and 25 units. Label the smallest angle A .
2. Find the 3 ratios of side lengths for angle A .
3. Estimate the acute angles in this triangle.

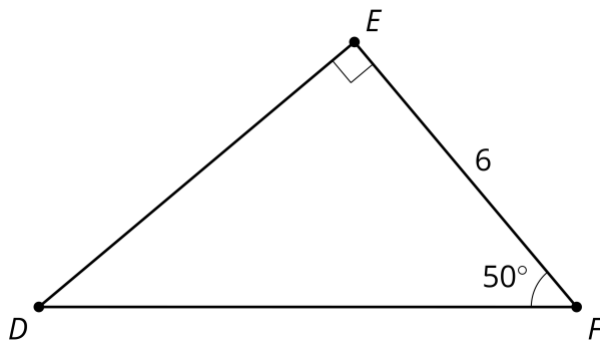
5.3: Solve All the Triangles

1. What is the length of segment AB ?



2. In a right triangle with one angle measuring 40 degrees, the leg opposite the 40 degree angle is 5 cm. What is the length of the hypotenuse?

3. What is the length of segment DE ?



4. In a right triangle with one angle measuring 70 degrees, the leg opposite the 70 degree angle is 12 cm. What is the length of the leg adjacent to the 70 degree angle?