

Name: \_\_\_\_\_

**Final Exam**  
**Chapter 11**  
**Simplifying Radicals and Pythagorean Theorem**

Write your answer in simplified radical form.

1.  $\sqrt{96}$

2.  $\sqrt{3} \cdot \sqrt{8}$

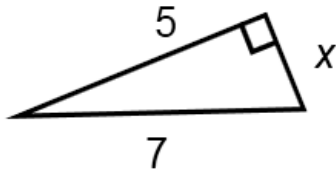
3.  $\sqrt{\frac{5}{24}}$

4.  $\sqrt{5}(\sqrt{10} + \sqrt{3})$

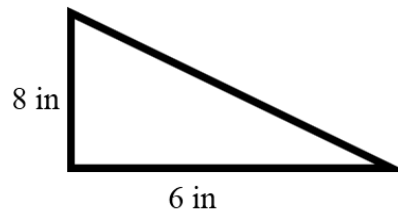
5.  $3\sqrt{2} - 3\sqrt{8}$

Use the Pythagorean Theorem to find the missing side length of each triangle.

6.



7.



8. Can the following side lengths form a right triangle? Show or explain your work.

12, 15, 9

9. Can the following side lengths form a right triangle? Show or explain your work.

10, 13, 15