

Radicals Self-Test  
SOL'S covered: A.3

Name \_\_\_\_\_

Simplify.

1.  $-\sqrt{0.0289}$

2.  $\pm\sqrt{\frac{196}{225}}$

Use a calculator to find each square root. Round answers to the nearest hundredth.

3.  $-\sqrt{61.7}$

4.  $\sqrt{10.028}$

Use the Pythagorean Theorem to find each missing measure to the nearest hundredth.

5.  $a = 30, b = 16, c = ?$

6.  $a = 10, c = 15, b = ?$

Simplify. Do not use any decimals in your answers!

7.  $\sqrt{450}$

8.  $\sqrt{10} \cdot \sqrt{20}$

9.  $\sqrt{44x^5y^4}$

10.  $\frac{\sqrt{98}}{\sqrt{2}}$

11.  $5\sqrt{10} \cdot 3\sqrt{10}$

12.  $\frac{\sqrt{5}}{\sqrt{55}}$

13.  $4\sqrt{27} + 6\sqrt{48}$

14.  $2\sqrt{13} + 8\sqrt{15} - 3\sqrt{15} + 3\sqrt{13}$

15.  $\sqrt{6} - \sqrt{54} + 3\sqrt{12} + 5\sqrt{3}$

16.  $7\sqrt{98} + 5\sqrt{32} - 2\sqrt{75}$