

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