

Find the value of the following radicals with a calculator. Round to the nearest thousandth.

1. $\sqrt{17}$

2. $\sqrt{211}$

3. $\sqrt{35 \cdot 3}$

4. $\sqrt{3}$

5. $\sqrt{2}$

6. $-6\sqrt{196}$

7. $(2\sqrt{3})(6\sqrt{7})$

8. $-3\sqrt{3} \cdot 2\sqrt{6}$

9. $4\sqrt{1600} - \sqrt{9} + 14$

10. $-9\sqrt{11} + 2\sqrt{11} - \sqrt{7}$

11. $3\sqrt{6} + 4\sqrt{6}$

12. $5\sqrt{2} - 5\sqrt{128}$

Simplify the following radicals **WITHOUT** a calculator. Do not round!

13. $\sqrt{16}$

14. $\sqrt{225}$

15. $\sqrt{25x^2}$

16. $\sqrt{64y^4}$

17. $\sqrt{27 \cdot 3}$

18. $\sqrt{625 \cdot 9}$

19. $\sqrt{17 + 19}$

20. $\sqrt{36x^2y^6}$