**Radicals and Exponents**

**Properties of Exponents Properties of Radicals**

1. 1.
2. 2.
3. 3.
4. **Rational Exponents**
5. 1.
6. 2.

**Simplify each expression. Assume that all variables are positive.**

**1.**   **2.**   **3.** 70

**4.**  **5.**  **6.** 

**7.**   **8.**   **9.** 

**10.**  **11.**  **12.** 

**13.**  **14.**  **15.** 

**16.**  **17.**  **18.** 

**19.**  **20.**  **21.** 

**Write each expression in radical form.**

**22.**  **23.**  **24.** 

**25.**  **26.** *m*2.4 **27.** *a*1.5

**Write each expression in exponential form.**

**29.**  **30.**  **31.** 

**32.**  **33.**  **34.** 