**1.** Write the exponential expression  in radical form.

 **2.** Write  in simplest form.

 **3.**  Simplify 

 **4.** Simplify 

 **5.**  Simplify 

 **6.** Find 

 **For 7, simplify the radical expression. Use absolute value symbols if needed.**

 **7.**  

 **Simplify. Assume all variables are positive.**

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

 **Simplify. Do not leave any negative or zero exponents in your answer.**

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

 **Rationalize the denominator, write in simplest form:**

 **12.** 

 **For 13-15, do the indicated operation if it is possible. NO DECIMAL ANSWERS.**

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

 **For 16-18, Simplify, leave answers in radical form where appropriate. NO DECIMAL ANSWERS.**

 **16.**  **17.**  **18.** 64 - 1.5

 **19.**  Multiply: 

 **For 20-21, Solve each equation. Check for extraneous solutions.**

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

 **22.**  Let  and  **a.)** Find *f*(*x*) + *g*(*x*). **b.)** Find (*f - g)*(*x*).

 **23.** Let and  **a.)** Find . **b.)** Find . State the domain

**24.** Let  and. **a.)** Find . **b.)** Find. . **c.)** Find.

**25.** Given , **a)** find  and the domain of . **b)** Find 

**26.** Graph .