Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Chapter 4 Assignment – Exponents and Radicals**

1. Evaluate each expression:
   1. f.
   2. g.
   3. h.
   4. i.
   5. j.
2. Simplify each of the following expressions:
   1. e.
   2. f.
   3. g.
   4. h.

1. Simplify each of the following expressions. Any variables in your final answer should be written with positive exponents and fractional exponents should be converted to a radical:
   1. e.
   2. f.
   3. g.
   4. h.
2. Write each of the following with rational exponents and simplify:
   1. b.
3. Convert each entire radical to a mixed radical:
   1. c.
   2. d.
4. Convert each mixed radical into an entire radical:
   1. c.
   2. d.
5. Write each radical as a power:
   1. b.
6. Write each power as a radical:
   1. b.
7. Identify whether the following numbers as rational, irrational, or neither:
   1. e.
   2. f.
   3. g.
   4. h.