Algebra I Class Work 11.1

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Directions: You may use your book, notes, calculator, friends, and teacher. However you may not copy someone else work verbatim. **Show all your work.** If you are not finished at the end of class, write “NEED MORE TIME” at the top and turn your paper in – **you may not take it home.** You have one week to finish it.

Estimate each root to the nearest integer.

1. $\sqrt{47}$
2. $\sqrt{126}$
3. $-\sqrt{23}$

Convert each radical to exponential form.

1. $\sqrt{7x^{3}y}$
2. $\sqrt[5]{6x^{4}bz^{5}}$

Convert each exponential form to radical form.

1. $3^{\frac{1}{2}}a^{\frac{3}{2}}$
2. $6^{\frac{1}{3}}a^{\frac{2}{3}}b^{\frac{1}{3}}$