*Objective:

*The <i>n</i> th Root		
*If <i>n</i> is odd	*If <i>n</i> is even	

Got It? 1. a. What are the real fifth roots of 0, -1, and 32?

- **b.** What are the real square roots of 0.01, -1, and $\frac{36}{121}$?
- **c.** Reasoning Explain why a negative real number b has no real nth roots if n is even.

Got It? 2. What is each real-number root?

- **a.** $\sqrt[3]{-27}$ **b.** $\sqrt[4]{-81}$
- c. $\sqrt{(-7)^2}$ d. $\sqrt{-49}$

^{*}Labeled picture of a radical (p. 362)

*nth Roots of nth Powers			

Got It? 3. What is the simplified form of each radical expression?

- **a.** $\sqrt{81x^4}$
- **b.** $\sqrt[3]{a^{12}b^{15}}$
- c. $\sqrt[4]{x^{12}y^{16}}$

Got It? 4. In Problem 4, what are the adjusted scores for raw scores of 0 and 100?

Academics Some teachers adjust test scores when a test is difficult. One teacher's formula for adjusting scores is $A = 10\sqrt{R}$, where A is the adjusted score and R is the raw score. If the raw scores on one test range from 36 to 90, what is the range of the adjusted scores?

Inclass: p. 364 #16, 28, 30 Homework: p. 364-365 #11-29

Interactmath: TBA