I. Solve a Radical Equation (p.577):

If \( a = b \), then \( a^n = b^n \)

i.e., \( \sqrt{x} = 2.5 \Rightarrow (\sqrt{x})^2 = (2.5)^2 \)

\( x = \) ________

also, \( \sqrt[3]{x} = -2 \Rightarrow (\sqrt[3]{x})^3 = (-2)^3 \)

\( x = \) _____

II. Examples (p.578): Problems #2,42,18,24,32,34,38,44,54

HW: pp.578-580 / Problems #1-53 (every other odd), 55
Chapter 7: simplify rational expressions (i.e., factor numerator/denominator & cancel common factors); perform arithmetic operations (±, × or ÷); simplify compound fractions; solve equations w/rational expressions; solve proportions; solve application problems (esp. motion problems); solve direct\((y=kx)\) variation vs inverse \((y=k/x)\) variation problems.

Chapter 8: know perfect square/cube roots; simplify radical expressions; perform arithmetic operations (±, × or ÷); rationalize the denominator; Pythagorean Theorem \((a^2 + b^2 = c^2)\); solve equations w/a radical expression, including application problems.