Name:	Key	

7.3,7.5,7.6 Review

1) Solve:

- 2) Solve:
- 3) Simplify:
- 4) Write in radical form:

$$(4^{3x+7})(4^{2x-9}) = 4^{13}$$

$$625^{x-1} = 5$$

- 45 = 413
- 5) A weight lifter can squat 475 pounds. She plans to increase the weight W(x) in pounds that she is lifting according to the function $W(x) = 475(1.05)^x$, where x represents the number of training cycles she completes. How much will she squat after 4 training sessions?
- 475 (1.05)
- 6) Determine the amount of an investment if \$96,000 is invested at an interest rate of 5.2% compounded monthly for 3 years.

- 7) Suppose a car that sells for \$40,000 depreciates 10% per year. How many years would it take for the car to have a value less

40,000 (.90) - 25,000

than \$25,000?