Exponential Functions Review

3. Simplify each of the following. Answers must have positive exponents. a) $(x^4)(x^3)$ b) $(5x^8)(4x^{-1})$ c) $(x^2y)^4$ d) $a^3 \times a^{-1} \div a^4 \times a^3$ e) $\frac{(3x^4y^2)(15x^5y^3)}{9x^6y^7}$ f) $\frac{(5x^4y^3)(4xy^2)}{10x^3y}$							
4. There are 10 000 yeast cells in a culture. The number of cells grows at a rate of 25% per day. How many cells will there be one week later?							
 5. Use the compound interest formula to determine the amount of the investment for each of the following. a) \$1600 at 10% compounded semi annually for 7 years. b) \$900 at 7% compounded monthly for 5 years. 							
6. Solve each compound interest problem using the formula then using the TVM Solver. a) John has \$200 to invest. He wants it to amount to 250.00 in 10 years. At what rate, compounded annually, did he invest his money? N= %= PV= PMT= FV= C/Y= P/Y=							
50?							
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