

Chapter 4 Homework Assignment P-Chem Math

Fall 2009

On separate piece of paper, evaluate each problem given below. Make sure to show all of your work (in other words, don't use a computer to do the work for you). *11 points total*

Evaluate the Derivative for each of the expressions below.

1. $(3 + 4x^3)^5$

2. $\ln(x^2 e^{-ax^2})$

3. $\sin(ax^2 + bx + c)$

4. $e^{(-4x^3 + 3x + 5)}$

5. $x^2 \ln(ax^2)$

6. $\frac{3x^2}{(4 + 3x^3)^{1/2}}$

7. Find $\frac{dn}{dP}$ for $\left(P + \frac{n^2 a}{V^2}\right)(V - nb) = nRT$.

DUE: Thursday, August 27, 2009 at 11:10 a.m.