ChE 263

Assignment #20

(Mathcad® HW #3)

Note: This homework assignment is to be done using Mathcad®.

1. **(Competency 2.1, 5.3; 25 points)** For each of the following three functions:

   determine the symbolic representation of $\frac{d f(x)}{dx}$ and $\frac{d^2 f(x)}{dx^2}$, and make a single plot

   showing $f(x)$, $\frac{d f(x)}{dx}$, $\frac{d^2 f(x)}{dx^2}$.

   a. $f(x) = x^3$
   b. $f(x) = 2x^3 - 3x^2 + x$
   c. $f(x) = \sin\left(\frac{5}{2}x\right)$

2. **(Competency 2.1, 5.3; 15 points)** For $f(x,y) = \sin(x)\cos(y)$ evaluate the following derivatives at $x = 1$ and $y = 1$.

   a. $\frac{d^2 f}{dx\,dy}$

   b. $\frac{d^3 f}{dx^2\,dy}$

   c. $\frac{d^3 f}{dx\,dy^2}$

3. **(Competency 2.1, 5.3; 10 points)** Evaluate each of the following indefinite integrals symbolically.

   a. $\int (a + bx + cx^2)\,dx$
   b. $\int\int 2x^2 y\,dx\,dy$

4. **(Competency 2.1, 5.3; 10 points)** Evaluate each of the following definite integrals

$f(x,y) := \sin(x)\cdot\cos(y)$ $x := 1$ $y := 1$

$\frac{d}{dx}\left(\frac{d}{dy} f(x,y)\right) = -0.455$

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