

# ChE 263

## Assignment #20 (Mathcad® HW #3)

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

- (Competency 2.1, 5.3; 25 points) For each of the following three functions:  
determine the symbolic representation of  $\frac{df(x)}{dx}$  and  $\frac{d^2f(x)}{dx^2}$ , and make a single plot showing  $f(x)$ ,  $\frac{df(x)}{dx}$ ,  $\frac{d^2f(x)}{dx^2}$ .
  - $f(x) = x^3$
  - $f(x) = 2x^3 - 3x^2 + x$
  - $f(x) = \sin\left(\frac{\pi}{3}x\right)$
- (Competency 2.1, 5.3; 15 points) For  $f(x,y) = \sin(x)\cos(y)$  evaluate the following derivatives at  $x = 1$  and  $y = 1$ .
  - $\frac{d^2f}{dx dy}$
  - $\frac{d^2f}{dx^2 dy}$
  - $\frac{d^3f}{dx dy^2}$
- (Competency 2.1, 5.3; 10 points) Evaluate each of the following indefinite integrals symbolically.
  - $\int (x + 4x + cx^2) dx$
  - $\int \int 2x^2 y dx dy$
- (Competency 2.1, 5.3; 10 points) Evaluate each of the following definite integrals symbolically.

The screenshot shows the Mathcad software interface. At the top, the title bar reads "Mathcad - [mcd]". Below it is a menu bar with "File Edit View Insert Format Tools Symbolics Window Help". A toolbar contains various icons for file operations, editing, and plotting. The main workspace contains the following text and plot:

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

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

Below the text is a 3D surface plot of the function  $f(x,y) = \sin(x)\cos(y)$ . The plot shows a wavy surface with a color gradient from blue (low values) to red (high values). The axes are labeled with numerical values.

At the bottom right of the window, there is a status bar with "AUTO" and "Page 1".

# Mathcad 15 Engineering User Guide

**Lei Shi**



## **Mathcad 15 Engineering User Guide:**

## Decoding **Mathcad 15 Engineering User Guide**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Mathcad 15 Engineering User Guide**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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