

ChE 263

Assignment #20 (Mathcad® HW #3)

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

- (Competency 2.1, 5.3; 15 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 and calculations. The main workspace displays the following content:

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

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

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

At the bottom right of the window, the status bar shows "AUTO" and "Page 1".

Mathcad 15 Engineering User Guide

Liyong Dong



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Table of Contents Mathcad 15 Engineering User Guide

1. Understanding the eBook Mathcad 15 Engineering User Guide
 - The Rise of Digital Reading Mathcad 15 Engineering User Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathcad 15 Engineering User Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathcad 15 Engineering User Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathcad 15 Engineering User Guide
 - Personalized Recommendations
 - Mathcad 15 Engineering User Guide User Reviews and Ratings
 - Mathcad 15 Engineering User Guide and Bestseller Lists

5. Accessing Mathcad 15 Engineering User Guide Free and Paid eBooks
 - Mathcad 15 Engineering User Guide Public Domain eBooks
 - Mathcad 15 Engineering User Guide eBook Subscription Services
 - Mathcad 15 Engineering User Guide Budget-Friendly Options
6. Navigating Mathcad 15 Engineering User Guide eBook Formats
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 - Highlighting and Note-Taking Mathcad 15 Engineering User Guide
 - Interactive Elements Mathcad 15 Engineering User Guide
8. Staying Engaged with Mathcad 15 Engineering User Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathcad 15 Engineering User Guide
9. Balancing eBooks and Physical Books Mathcad 15 Engineering User Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathcad 15 Engineering User Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathcad 15 Engineering User Guide
 - Setting Reading Goals Mathcad 15 Engineering User Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathcad 15 Engineering User Guide
 - Fact-Checking eBook Content of Mathcad 15 Engineering User Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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