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Introduction to MATLAB 7 for Engineers

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Chapter 8 Numerical Calculus and Differential Equations



8-1

The area A under the curve of $f(x)$ from $x=a$ to $x=b$.
Figure 8.1-1

$$A = \int_a^b f(x) dx$$

Find the following
integral:

$$A = \int \sin(x^2) dx \quad \text{Fresnel's cosine integral}$$

8-2

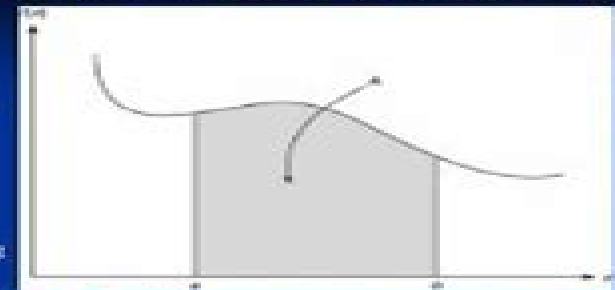
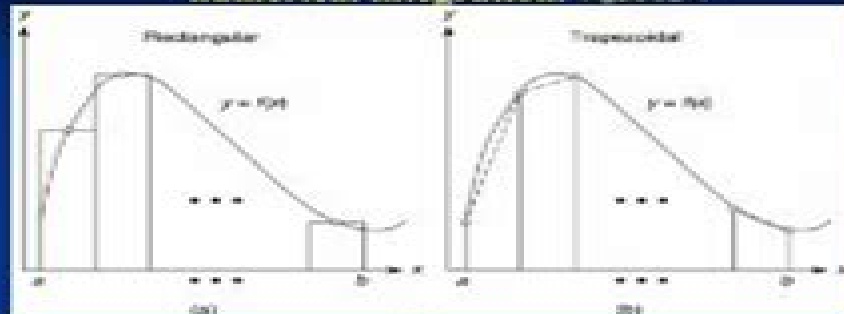


Illustration of (a) Rectangular and (b) Trapezoidal numerical integration. Figure 8.2-1



8-3

Numerical integration functions. Table 8.2-1

Command	Description
<code>quad('fun',a,b,tol)</code>	Uses an adaptive Simpson's rule to compute the integral of the function "fun" with a as the lower integration limit and b as the upper limit. The parameter tol is optional. tol indicates the specified error tolerance.
<code>quadl('fun',a,b,tol)</code>	Uses Lobatto quadrature to compute the integral of the function "fun". The rest of the syntax is identical to quad.
<code>trapz(x,y)</code>	Uses trapezoidal integration to compute the integral of y with respect to x, where the array y contains the function values at the points contained in the array x.

8-4

MATLAB function **quad** implements an adaptive version of Simpson's rule, while the **quadl** function is based on an adaptive Lobatto integration algorithm. To compute the **sine** integral, type:

```
>> A = quad('sin',0,pi)
```

The answer given by MATLAB is 2, which is correct. We use **quadl** the same way; namely,

```
>> A = quadl('sin',0,pi).
```

Integration example: Create the function:

```
function c2 = cosxq(x)
```

```
% cosine x squared function Fresnel's int.
```

```
c2 = cos(x.^2);
```

Now that you **must** use array exponentiation (`.^`).

The **quad** function is called as follows:

```
>> quad('cosxq',0,sqrt(2*pi))
```

The result is 0.6119.

8-5

A potential problem with integration.

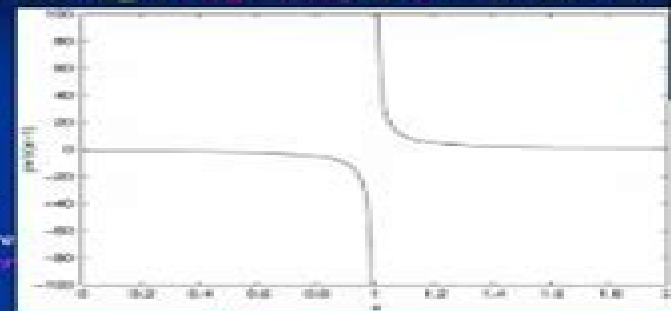
A function having a **singularity** at $x=1$. Figure 8.1-2

The plot of
 $y = 1/(x-1)$

$$\int \frac{1}{x-1} dx = \ln|x-1|$$

Some integrals have **infinite** values. These are called **improper integrals**.

8-6



Matlab 7 For Engineers

Didier Musso



Matlab 7 For Engineers:

Matlab 7 For Engineers Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Matlab 7 For Engineers**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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Table of Contents Matlab 7 For Engineers

1. Understanding the eBook Matlab 7 For Engineers
 - The Rise of Digital Reading Matlab 7 For Engineers
 - Advantages of eBooks Over Traditional Books
2. Identifying Matlab 7 For Engineers
 - 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 Matlab 7 For Engineers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Matlab 7 For Engineers
 - Personalized Recommendations
 - Matlab 7 For Engineers User Reviews and Ratings
 - Matlab 7 For Engineers and Bestseller Lists
5. Accessing Matlab 7 For Engineers Free and Paid eBooks

- Matlab 7 For Engineers Public Domain eBooks
- Matlab 7 For Engineers eBook Subscription Services
- Matlab 7 For Engineers Budget-Friendly Options
- 6. Navigating Matlab 7 For Engineers eBook Formats
 - ePub, PDF, MOBI, and More
 - Matlab 7 For Engineers Compatibility with Devices
 - Matlab 7 For Engineers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Matlab 7 For Engineers
 - Highlighting and Note-Taking Matlab 7 For Engineers
 - Interactive Elements Matlab 7 For Engineers
- 8. Staying Engaged with Matlab 7 For Engineers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Matlab 7 For Engineers
- 9. Balancing eBooks and Physical Books Matlab 7 For Engineers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Matlab 7 For Engineers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Matlab 7 For Engineers
 - Setting Reading Goals Matlab 7 For Engineers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Matlab 7 For Engineers
 - Fact-Checking eBook Content of Matlab 7 For Engineers
 - 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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