



UNIVERSITY OF JORDAN
Faculty of Eng. and Tech.
Electrical Engineering Dept.

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Introduction to MATLAB 7 for Engineers

William J. Palm III

Chapter 8 Numerical Calculus and Differential Equations



7-4-4

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

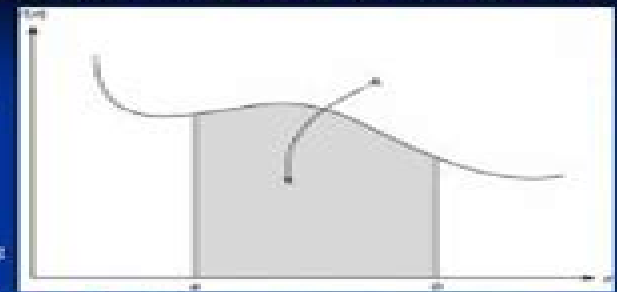
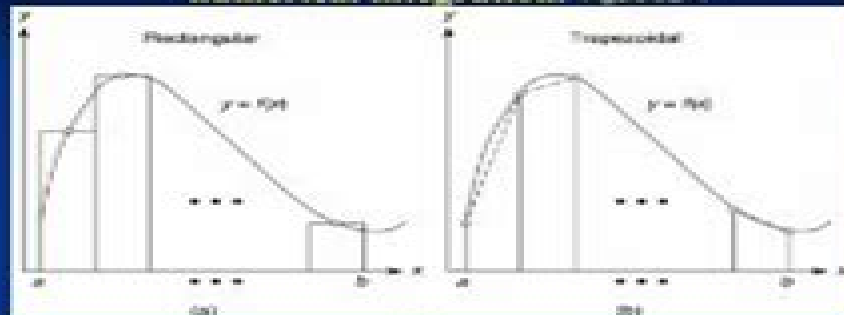


Illustration of (a) Rectangular and (b) Trapezoidal
numerical integration. Figure 8.2-1



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 = cosxsq(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('cosxsq',0,sqrt(2*pi))
```

The result is 0.6119.

8-5

A potential problem with integration.

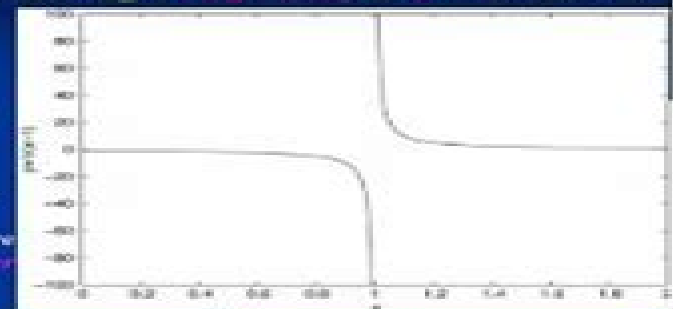
A function having a **singularity** at $x=1$. Figure 8.1-2

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

Stephen J. Chapman



Matlab 7 For Engineers:

Introduction to MATLAB 7 for Engineers William John Palm, 2005 This is a simple concise book designed to be useful for beginners and to be kept as a reference MATLAB is presently a globally available standard computational tool for engineers and scientists The terminology syntax and the use of the programming language are well defined and the organization of the material makes it easy to locate information and navigate through the textbook The text covers all the major capabilities of MATLAB that are useful for beginning students An instructor's manual and other web resources are available

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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
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 - Matlab 7 For Engineers Enhanced eBook Features
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 - 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
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