UNIVERSITY OF JORDAN
Faculty of Eng. and Tech.
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Instructor: Ziad R. Al-Khatib

Introduction to MATLAB 7 for Engineers

William J. Palm III

Chapter 8
Numerical Calculus and Differential Equations
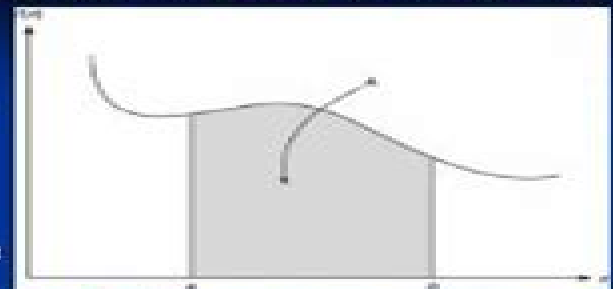

The area _A_ under the curve of $f(x)$ from $x = a$ to $x = b$. Figure 8.1–1

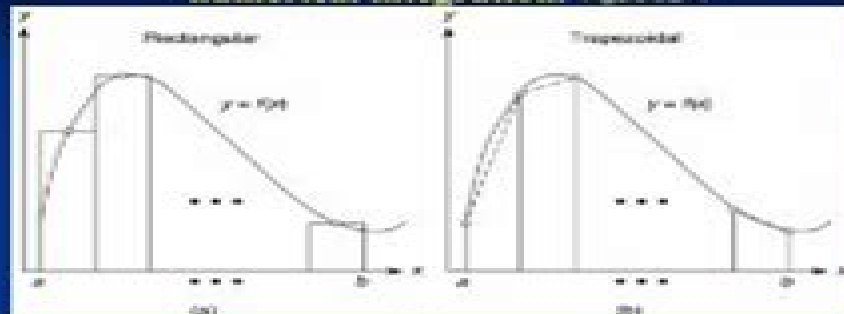$$A = \int_a^b f(x)\, dx$$

Find the following integral:

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

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

Rectangular $y = f(t)$

Trapezoidal $y = f(t)$

(a)   (b)

Numerical integration functions. Table 8.2–1

Command	Description
`quad('fun',a,b,tol)`	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.
`quadl('fun',a,b,tol)`	Uses Lobatto quadrature to compute the integral of the function 'fun'. The rest of the syntax is identical to quad.
`trapz(x,y)`	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.

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);
```

Note that you must use array exponentiation (.^). The quad function is called as follows:

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

The result is 0.6119.
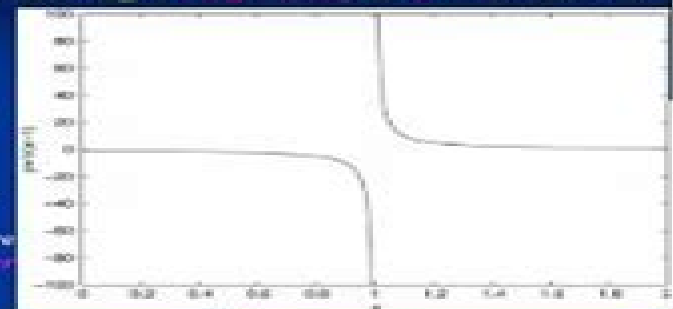

A potential problem with integration.
A function having a singularity at $x = 1$. Figure 8.1–2

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

$$\int 1/(x-1)\, dx = \ln|x-1|$$

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

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Eric Carlson

Matlab 7 For Engineers:

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for oral presentations and 20 for posters Six key note speeches were delivered during the conference presenting the state of the art of medical informatics Two workshops were also organized covering the topics of Legal Ethical and Social Issues in Medical Imaging and Informatics and Computer Aided Diagnosis CAD respectively   Artificial Intelligence in Renewable Energetic Systems Mustapha Hatti,2018-03-12 This book includes the latest research presented at the International Conference on Artificial Intelligence in Renewable Energetic Systems held in Tipaza Algeria on October 22 24 2017 The development of renewable energy at low cost must necessarily involve the intelligent optimization of energy flows and the intelligent balancing of production consumption and energy storage Intelligence is distributed at all levels and allows information to be processed to optimize energy flows according to constraints This thematic is shaping the outlines of future economies of and offers the possibility of transforming society Taking advantage of the growing power of the microprocessor makes the complexity of renewable energy systems accessible especially since the algorithms of artificial intelligence make it possible to take relevant decisions or even reveal unsuspected trends in the management and optimization of renewable energy flows The book enables those working on energy systems and those dealing with models of artificial intelligence to combine their knowledge and their intellectual potential for the benefit of the scientific community and humanity

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