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2. Now check your result using Matlab. (Simply copy the code, paste in Matlab and run it) Exercise 3. Let's consider a cone. Write a Matlab program that

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computes the volume of a cone. Here is the formula you should be using. Where  $r$  is the radius of the base and  $h$  is the height. Write a Matlab program that finds the radius of a cone.

## **Matlab Exercises - Tutorial45**

Exercise 6: Use MATLAB to write an audio waveform (8 kHz sampling frequency) that contains a

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sequence of nine tones with frequencies 659, 622, 659, 622, 659, 494, 587, 523, and 440 Hz. Then add to this waveform a copy of itself in which every other sample has been multiplied by 1. Play the waveform, write it to a WAV file, and use the specgram

## **Introduction to MATLAB { exercises and solution notes**

Beginning Matlab

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Exercises R. J. Braun  
Department of  
Mathematical Sciences  
University of Delaware  
1 Introduction This  
collection of exercises  
is intended to help you  
start learning Matlab.  
Matlab is a huge  
package with many  
capabilities, but it is  
easy to use on many  
levels.

## **Beginning Matlab Exercises - Mathematical**

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Matlab Exercises Part 1  
version 7.1, EJP, 2019

1. Start matlab. 2.

Enter the following  $1 + 2x = 1 + 2x = 1 + 2;$   
 $y = x^2 + 2x + 8$  3.

Enter the following  
format longE pi You  
can use the arrow keys  
and the delete key to  
recall and edit previous  
commands. Press the  
up arrow key twice to  
recall the format  
command and delete  
the "e" and press



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enter.

```
>> A = [ 1 2 ; 3 4];
```

Exercises for MATLAB

Course 1. Run the

MATLAB code: `a = 1:5;`

... Find the solution of the equation  $\sin x = 2x - 2$ . We define the

function `sinm(x)` and

store it in the M-file

`sinm.m`: ... The

following MATLAB code

plots polynomials of

third, fourth, and fifth

degree approximating

data given by the

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vectors  $x$  and  $y$ : 3

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steady electric  
currents,  
magnetostatic fields,  
slowly time-varying  
(low-frequency)  
electromagnetic fields,  
rapidly time-varying  
(high- frequency)  
electromagnetic fields,  
uniform plane  
electromagnetic

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waves, transmission lines, waveguides and cavity resonators, and antennas and wireless communication systems.

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(Ordinary Differential  
Equations for  
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The workbook  
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divisions; Matlab  
Basics, Matlab  
Programming and



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Beginners  
few exercises to develop or test your skills in Matlab. During the course, we will mostly work with a pre-programmed set of Matlab scripts and functions (byom). However, some dexterity with Matlab will help you to modify

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\Introduction to  
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is a document for an introductory course in MATLAB<sup>®</sup> R 1 and technical computing. It is used for freshmen classes at Northwestern University. This document is not a comprehensive introduction or a reference manual. Instead, it focuses on the specific features of MATLAB that are useful for ...

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## **MATLAB FOR ENGINEERING STUDENTS**

A review of \orthogonal polynomials in matlab: exercises and solutions" by gautschi alex townsend walter gautschi is a leading expert in ..., numerical computing with matlab is a textbook for an introductory course in numerical methods, matlab, and technical computing. it emphasizes the

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informed use of mathematical software. topics include matrix computation, interpolation and zero finding, differential equations, random numbers, and.

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Exercises and Solutions. Exercises are attached to each

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chapter, and the software used to get the numbers in the tables and the curves in the figures is available. All the solutions to exercises are available for lecturers upon request: [L.A.Grzalak@tudelft.nl](mailto:L.A.Grzalak@tudelft.nl)  
If you would like to contribute to the solutions please use the repository.

**with Exercises and  
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## Homework 3 Solutions

1. (Exercise 2, p. 11 of Matlab handout) Write a Matlab script le to plot three functions on one graph. Plot  $y = \sin(x)$  in red,  $y = \sin(2x)$  in black, and  $y = \sin(3x)$  in green,

## **Homework 3 Solutions - Whitman People**

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