

Your Name
Introduction to Matlab
Date Completed

MATLAB HELP

1. What Matlab demos are available for demonstrating features of the MATLAB language?

REPRESENTING AND STORING NUMBERS

2. Type `pi` at a command prompt without a semicolon. How many significant digits are displayed?
3. Type `i` at a command prompt without a semicolon. How does Matlab display this imaginary number?

Given the declarations

```
»x = [4 2 5 5 3];  
»y = [7;4;3;4;6];  
»z = pi;
```

what are the resulting values of the following function operations?

4. `a = max(x)`
5. `b = median(y)`
6. `c = mean(y)`
7. `d = min(x + y')`
8. `f = cos(z)`

PLOTTING

9. Examine the independent and dependent axis of the plot of the two sinusoids. What are the domain and the range of the plot? How could Matlab have determined these values?
10. Label the axes of the `y=exp(-0.5*t).*sin(2*pi*t)` plot appropriately. Give the plot an appropriate title. Use the `print` command to generate an image file that is to be incorporated into your report. (In Microsoft Word this can be done by using `Insert` ⇒ `Picture` ⇒ `From File` and then selecting the file that you generated in Matlab. It should be very similar to Figure 3.)

FILE ACCESS

11. What is the command to load the data form `Text.txt` into matrix `D`?