CSS 455 Winter 2012 C. J Activity No. 1 January 4, 2012

Names (must be present):

Checklist Assignment. (To be done with your partner; just check off if you have done this or know how to do it.

C. Jackels

Start a Matlab session on the local Windows system.	
Open the Matlab help window. This is an excellent source of info algorithms being used in some cases.	ormation and explains in some detail the
Open and explore the web-based help from the link on the course found there as well.	e home page. Printed manuals can be
Vector algebra review using Matlab. These exercises are to rem	
as well as to make sure you are familiar with using Matlab for ve	
 Know the difference between a column vector and row vector other. 	for and that they are the transpose of each
 Generate a row vector arow and a column vector bcol, both to fill them with random numbers between 1 and 10. 	of the same length. Use the function <i>rand</i>
 Use the transposition operator (trailing single quote) to calc transposes 	ulate acol and brow , which are their
• Calculate the dot (inner) product of arow and bcol .	
 Calculate the pointwise product of these two vectors. (they operations) 	must have the same shape for these
 Calculate the pointwise quotient of these two vectors. (the operations) 	y must have the same shape for these
 Calculate the 1-norm, 2-norm, and infinity-norm of one of t <i>Euclidean norm?</i> 	hese vectors. Which one is the common
• Calculate the <i>outer product</i> of the two vectors: acol*brow	
_Make sure you can use the m-file editor in Matlab. Within Matlal on "m-file". This should spawn an editor window. In the edito clear clc a = [1 5 10 4] b = [2 7 3 21]	
c = a + b	
plot (a,b,a,b,'*')	
Save this file as <i>fname</i> (it will be saved as <i>fname.m</i>), move back	to the main Matlab command window and
enter the command <i>fname</i> . The script should	22
execute and produce a plot in Figure 1.	20
M-files are the format for saving work between sessions,	18
saving main program scripts, creating library	14
functions, transfering to another computer system,	12
or communicating with your partner.	10
Check to see that you can print from the command, the m-	6
file editor, and the figure 1 windows.	4
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