AMATH 352: Problem Set 0

Instructor: Brian de Silva

January 4, 2017

Due: Friday January 13, 2017 at 5:00pm

Instructions:

This assignment is not worth any actual points. It is designed to give you an opportunity to practice submitting assignments through Scorelator. You will be granted 10 submissions (normally you will have five). The only thing I will ever ask you to submit to Scorelator is the Matlab portion of your assignment. You will still be required to turn in the written portion of your assignment digitally (through Canvas).

Your Matlab code should generate the following files: `A1.dat, A2.dat,` and `A3.dat`.

Recall that if you want to save the variable `variableName` in the file *filename.dat* then you can use either of the following equivalent Matlab commands:

```
save('filename.dat', 'variableName', '-ascii')
save filename.dat variableName -ascii
```

(Tip: do not copy and paste the commands I wrote above into Matlab. The quotation marks that LaTeX generates are slightly different from those used in Matlab.)

Practice submitting problems to Scorelator:

1. Create the following (row) vector:
$$[\ 0,\ 2,\ 4,\ \ldots\ ,\ 30\ ].$$
Answer: Should be written out as `A1.dat`

2. Create the following (column) vector:
$$\begin{bmatrix} 5 \\ e^3 \\ \sin(2) \end{bmatrix}.$$
Answer: Should be written out as `A2.dat`

3. Use the `zeros` command to create a 10×1 (column) vector of all zeros. (Note: to create an $n \times m$ matrix of all zeros, you can use the command `zeros(n,m)`)

Answer: Should be written out as `A3.dat`