**Experiment 15**: Matrices, Part 2

(Edit this document as needed)

Partner 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Partner 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*Part A: Matrix Multiplications*

1. , , *C = AB*

Dimensions of C: \_\_\_\_\_\_\_\_\_\_\_\_\_

Resulting C matrix (show your work)

1. , , *F = DE*

Dimensions of F: \_\_\_\_\_\_\_\_\_\_\_\_\_

Resulting F matrix (show your work)

1. , , *G=ED*

Dimensions of G: \_\_\_\_\_\_\_\_\_\_\_\_\_

Resulting G matrix (show your work)

1. Design Problem 3 (experiment 12) application of matrix mathematics
2. Matlab results of part a-c

*Part B: Determinants*

1. 

(show your work)

1. 

(show your work)

1. 

(show your work)

1. Experiment 11 Design Problem 2 determinant
2. 

(show your work)

1. 

(show your work)

1. Experiment 11 Design Problem 3 determinant
2. Matlab results of j and k

*Part C: Inverses*

1. 

(show your work)

1. 

(show your work)

1.  (oops, why?)

(show your work)

1. Matlab verification of problems n and o
2. Experiment 11 Design Problem 3 inverse matrix and matrix multiplication

Due: March.17th, 2022 at 11:59 pm eastern on Gradescope

One student submits on Gradescope and adds their partner using “add group members” option on Gradescope.