Enter each of the following MATLAB commands and carefully analyze the display generated. Make certain you understand the behavior of each command. For new commands use help for a brief description. Write a brief description of the action of the commands in the space provided.

a) \(5\times \text{eye}(2)\)  

b) \(\text{eye}(2) + \text{ones}(2)\)

c) \(\text{ones(size(C))}, \text{zeros(size(C))}, C + \text{ones(size(C))}\)

d) \(D, \text{diag}(D), \text{diag}(\text{diag}(D))\)  
e) \(\text{diag([-3 4])}, \text{diag([5 -7 1])}\)

f) \(D, \text{triu}(D)\)  
g) \(D, \text{tril}(D)\)

2. In each of the following construct a MATLAB command to generate the matrix described. For example, a row with five ones is generated by \(\text{ones}(1,5)\). Record your command in the space provided. (Do not explicitly type the entries of the matrix described.)

a) A column with 8 ones.

b) A row with 10 threes.