

Section 4.2 Worksheet Dr. Katiraie MA110

1. Use these matrices to answer the following questions.

$$A = \begin{bmatrix} 2 & 1 & -3 \\ 4 & 0 & -5 \end{bmatrix} \quad B = \begin{bmatrix} -3 & 5 \\ 0 & -8 \end{bmatrix} \quad C = [4 \quad -3 \quad 7] \quad D = \begin{bmatrix} 5 & -2 & 9 \\ 3 & 0 & -6 \\ 4 & -1 & -2 \end{bmatrix}$$

$$E = \begin{bmatrix} a & b \\ c & d \\ e & f \end{bmatrix} \quad F = \begin{bmatrix} 4 & -3 \\ 5 & 0 \\ 9 & 2 \\ 7 & -8 \end{bmatrix} \quad G = \begin{bmatrix} w & x \\ y & z \end{bmatrix} \quad H = \begin{bmatrix} 4 \\ -3 \\ 0 \end{bmatrix}$$

A. List the size of each of the following matrices:

A = _____ B = _____ C = _____ D = _____

E = _____ F = _____ G = _____ H = _____

B. Do not compute – just answer question!! Are the following products possible to compute? **If so, write yes in the blank. If not, explain why not – be brief – but specific!**

AD _____ EF _____

FD _____ FG _____

C. Find the product AE.