Classwork	CPE 490 590
Dates	Student Name:
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J	

$$\vec{X} = \begin{bmatrix} 1 \\ 4 \end{bmatrix}$$
  $\vec{y} = \begin{bmatrix} 1 \\ 4 \end{bmatrix}$  Ane: you vector

$$y = [1,4,5]$$

Ans: Column reeter.

>> A=np. array ([[1,2,37]] # How many number of columns? >>B=np. array ([[1], [2], [3]]) # How many number of rows?

which one of the above is a now rector and which one is a column vector?

(2 points)

Ans: A is a now recter with 3 columns.

B is a column vector with 3 rouse

>> vplww = v+w

what is the value of vplus w?

(2 points)

(4.) What is the output of arb where:

>) atb

Makrix multiplication (4 points)

$$A = \begin{bmatrix} 1 & 00 \\ 0 & 10 \\ 0 & 0 \end{bmatrix} \qquad B = \begin{bmatrix} 3 \\ 6 \\ 7 \end{bmatrix}_{3\times 1}$$

Compute AxB. What kind of matrix is A?

(2 Points)

Solution
$$\begin{bmatrix}
0 & 0 & 0 \\
0 & 1 & 0
\end{bmatrix}$$

$$\begin{bmatrix}
0 & 1 & 0 \\
7
\end{bmatrix}$$

$$\begin{bmatrix}
1x3 + 0x6 + 0x7 \\
0x3 + 1x6 + 0x7
\end{bmatrix} = \begin{bmatrix}
3 \\
6 \\
7
\end{bmatrix}$$

$$0x3 + 0x6 + 1x7
\end{bmatrix} = \begin{bmatrix}
7 \\
7
\end{bmatrix}$$