Unique Properties of Matrix Operations - Guided Lesson

Complete the following problems:

1) What are the dimensions of matrix B?

$$B = \begin{bmatrix} 2 \\ 1 \\ 3 \end{bmatrix} + \begin{bmatrix} 0 \\ 5 \\ 0 \end{bmatrix} + \begin{bmatrix} 1 \\ 0 \\ 0 \end{bmatrix}$$

2) What are the dimensions of the resultant matrix?

$$\begin{bmatrix} 4 & 8 \\ 6 & 3 \end{bmatrix} - \begin{bmatrix} 3 & 0 & 2 \\ 7 & 1 & 5 \end{bmatrix}$$

3) What are the dimensions of matrix C?

$$C = 3[2 \ \ 2] - [4 \ \ 5]$$