Add, Subtract, and Multiply Matrices - Step-by-Step Lesson

1. Fill in the missing number.

$$\begin{bmatrix} 9 & 11 \\ 8 & 4 \end{bmatrix} - \begin{bmatrix} 7 & 2 \\ 4 & 1 \end{bmatrix} = \begin{bmatrix} ? & 9 \\ 4 & 3 \end{bmatrix}$$

Explanation:

When subtracting two matrices, we find the difference between numbers in the same column and row. In this case, we need to find the difference between 9 and 7, which is 2.

$$\begin{bmatrix} \mathbf{9} & 11 \\ 8 & 4 \end{bmatrix} - \begin{bmatrix} \mathbf{7} & 2 \\ 4 & 1 \end{bmatrix} = \begin{bmatrix} \mathbf{2} & 9 \\ 4 & 3 \end{bmatrix}$$