

The Detail Process of Adding, Subtracting and Multiplying Matrices Operation Pre Calcul...

Lesson 246 | Precalculus | Matrix operations

<https://www.youtube.com/watch?v=gydmYdPhOis>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

Let $A = \begin{bmatrix} 9 & 2 \\ 1 & 5 \end{bmatrix}$ and $B = \begin{bmatrix} 5 & -3 \\ 4 & 1 \end{bmatrix}$ (semicolons separate rows). Find $A+B$ and AB .

02

Let $A = \begin{bmatrix} 6 & 14 \\ 1 & 9 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & -4 \\ 3 & 1 \end{bmatrix}$ (semicolons separate rows). Find $A+B$ and AB .

03

Let $A = \begin{bmatrix} 13 & 12 \\ 1 & 8 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & 2 \\ 4 & 1 \end{bmatrix}$ (semicolons separate rows). Find $A+B$ and AB .

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04

Let $A = [6, 7; 1, 13]$ and $B = [5, 4; 6, 1]$ (semicolons separate rows). Find $A+B$ and AB .

05

Let $A = [10, 2; 1, 14]$ and $B = [5, -7; 3, 1]$ (semicolons separate rows). Find $A+B$ and AB .

06

Let $A = [11, 2; 1, 13]$ and $B = [6, -6; 5, 1]$ (semicolons separate rows). Find $A+B$ and AB .

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01

Let $A = \begin{bmatrix} 9 & 2 \\ 1 & 5 \end{bmatrix}$ and $B = \begin{bmatrix} 5 & -3 \\ 4 & 1 \end{bmatrix}$ (semicolons separate rows). Find $A+B$ and AB .

Add entrywise: $\begin{bmatrix} 14 & -1 \\ 5 & 6 \end{bmatrix}$. For AB take row-column dot products: $\begin{bmatrix} 53 & -25 \\ 25 & 2 \end{bmatrix}$.

02

Let $A = \begin{bmatrix} 6 & 14 \\ 1 & 9 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & -4 \\ 3 & 1 \end{bmatrix}$ (semicolons separate rows). Find $A+B$ and AB .

Add entrywise: $\begin{bmatrix} 9 & 10 \\ 4 & 10 \end{bmatrix}$. For AB take row-column dot products: $\begin{bmatrix} 60 & -10 \\ 30 & 5 \end{bmatrix}$.

03

Let $A = \begin{bmatrix} 13 & 12 \\ 1 & 8 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & 2 \\ 4 & 1 \end{bmatrix}$ (semicolons separate rows). Find $A+B$ and AB .

Add entrywise: $\begin{bmatrix} 15 & 14 \\ 5 & 9 \end{bmatrix}$. For AB take row-column dot products: $\begin{bmatrix} 74 & 38 \\ 34 & 10 \end{bmatrix}$.

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04

Let $A = \begin{bmatrix} 6 & 7 \\ 1 & 13 \end{bmatrix}$ and $B = \begin{bmatrix} 5 & 4 \\ 6 & 1 \end{bmatrix}$ (semicolons separate rows). Find $A+B$ and AB .

Add entrywise: $\begin{bmatrix} 11 & 11 \\ 7 & 14 \end{bmatrix}$. For AB take row-column dot products: $\begin{bmatrix} 72 & 31 \\ 83 & 17 \end{bmatrix}$.

05

Let $A = \begin{bmatrix} 10 & 2 \\ 1 & 14 \end{bmatrix}$ and $B = \begin{bmatrix} 5 & -7 \\ 3 & 1 \end{bmatrix}$ (semicolons separate rows). Find $A+B$ and AB .

Add entrywise: $\begin{bmatrix} 15 & -5 \\ 4 & 15 \end{bmatrix}$. For AB take row-column dot products: $\begin{bmatrix} 56 & -68 \\ 47 & 7 \end{bmatrix}$.

06

Let $A = \begin{bmatrix} 11 & 2 \\ 1 & 13 \end{bmatrix}$ and $B = \begin{bmatrix} 6 & -6 \\ 5 & 1 \end{bmatrix}$ (semicolons separate rows). Find $A+B$ and AB .

Add entrywise: $\begin{bmatrix} 17 & -4 \\ 6 & 14 \end{bmatrix}$. For AB take row-column dot products: $\begin{bmatrix} 76 & -64 \\ 71 & 7 \end{bmatrix}$.