

Adding and Subtracting Matrices

Lesson 148 | Algebra II | Adding and subtracting matrices

<https://www.youtube.com/watch?v=5k-TXi6Hu2U>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

For $A = \begin{bmatrix} 6 & 11 \\ 3 & 3 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & -5 \\ 6 & 11 \end{bmatrix}$, find $A+B$ and $A-B$.

02

For $A = \begin{bmatrix} 7 & 9 \\ 5 & 6 \end{bmatrix}$ and $B = \begin{bmatrix} 6 & -6 \\ 7 & 9 \end{bmatrix}$, find $A+B$ and $A-B$.

03

For $A = \begin{bmatrix} 3 & 10 \\ 2 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 4 & 7 \\ 3 & 10 \end{bmatrix}$, find $A+B$ and $A-B$.

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04

For $A=[8,5;4,4]$ and $B=[4,-8;8,5]$, find $A+B$ and $A-B$.

05

For $A=[11,8;6,4]$ and $B=[4,-1;11,8]$, find $A+B$ and $A-B$.

06

For $A=[13,9;8,7]$ and $B=[7,3;13,9]$, find $A+B$ and $A-B$.

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01

For $A = \begin{bmatrix} 6 & 11 \\ 3 & 3 \end{bmatrix}$ and $B = \begin{bmatrix} 3 & -5 \\ 6 & 11 \end{bmatrix}$, find $A+B$ and $A-B$.

Add/subtract corresponding entries: $A+B = \begin{bmatrix} 9 & 6 \\ 9 & 14 \end{bmatrix}$; $A-B = \begin{bmatrix} 3 & 16 \\ -3 & -8 \end{bmatrix}$.

02

For $A = \begin{bmatrix} 7 & 9 \\ 5 & 6 \end{bmatrix}$ and $B = \begin{bmatrix} 6 & -6 \\ 7 & 9 \end{bmatrix}$, find $A+B$ and $A-B$.

Add/subtract corresponding entries: $A+B = \begin{bmatrix} 13 & 3 \\ 12 & 15 \end{bmatrix}$; $A-B = \begin{bmatrix} 1 & 15 \\ -2 & -3 \end{bmatrix}$.

03

For $A = \begin{bmatrix} 3 & 10 \\ 2 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 4 & 7 \\ 3 & 10 \end{bmatrix}$, find $A+B$ and $A-B$.

Add/subtract corresponding entries: $A+B = \begin{bmatrix} 7 & 17 \\ 5 & 14 \end{bmatrix}$; $A-B = \begin{bmatrix} -1 & 3 \\ -1 & -6 \end{bmatrix}$.

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04

For $A = \begin{bmatrix} 8 & 5 \\ 4 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 4 & -8 \\ 8 & 5 \end{bmatrix}$, find $A+B$ and $A-B$.

Add/subtract corresponding entries: $A+B = \begin{bmatrix} 12 & -3 \\ 12 & 9 \end{bmatrix}$; $A-B = \begin{bmatrix} 4 & 13 \\ -4 & -1 \end{bmatrix}$.

05

For $A = \begin{bmatrix} 11 & 8 \\ 6 & 4 \end{bmatrix}$ and $B = \begin{bmatrix} 4 & -1 \\ 11 & 8 \end{bmatrix}$, find $A+B$ and $A-B$.

Add/subtract corresponding entries: $A+B = \begin{bmatrix} 15 & 7 \\ 17 & 12 \end{bmatrix}$; $A-B = \begin{bmatrix} 7 & 9 \\ -5 & -4 \end{bmatrix}$.

06

For $A = \begin{bmatrix} 13 & 9 \\ 8 & 7 \end{bmatrix}$ and $B = \begin{bmatrix} 7 & 3 \\ 13 & 9 \end{bmatrix}$, find $A+B$ and $A-B$.

Add/subtract corresponding entries: $A+B = \begin{bmatrix} 20 & 12 \\ 21 & 16 \end{bmatrix}$; $A-B = \begin{bmatrix} 6 & 6 \\ -5 & -2 \end{bmatrix}$.