Lesson 12.1 Practice: Matrices and Matrix Operations

School Launch · Algebra II · Unit 12: Matrices and Vectors · Worksheet A

Calculator for decimals

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. $A = \begin{bmatrix} -3 & 6 \\ 5 & 5 \end{bmatrix}$, $B = \begin{bmatrix} 6 & 2 \\ 5 & 4 \end{bmatrix}$. Find $A + B$. EASY

2. $A = \begin{bmatrix} -1 & 3 \\ 4 & 2 \end{bmatrix}$, $B = \begin{bmatrix} 4 & -6 \\ -6 & -3 \end{bmatrix}$. Find $A + B$. EASY

3. $A = \begin{bmatrix} 3 & 3 \\ 1 & 1 \end{bmatrix}$, $B = \begin{bmatrix} 1 & -4 \\ 5 & 4 \end{bmatrix}$. Find $A + B$. EASY

4. $A = \begin{bmatrix} 4 & -3 \\ 5 & -3 \end{bmatrix}$, $B = \begin{bmatrix} -3 & -4 \\ 5 & -3 \end{bmatrix}$. Find $-1A - B$. MEDIUM

5. $A = \begin{bmatrix} 0 & -3 \\ 5 & -4 \end{bmatrix}$, $B = \begin{bmatrix} 3 & -5 \\ -1 & 6 \end{bmatrix}$. Find $-2A - B$. MEDIUM

6. $A = \begin{bmatrix} 0 & -6 \\ 0 & 5 \end{bmatrix}$, $B = \begin{bmatrix} 3 & 5 \\ -4 & 3 \end{bmatrix}$. Find $-1A - B$. MEDIUM

7. $A = \begin{bmatrix} -1 & 4 \\ 0 & -1 \end{bmatrix}$, $B = \begin{bmatrix} 1 & -5 \\ 0 & 3 \end{bmatrix}$. Find $-1A - B$. MEDIUM

8. $A = \begin{bmatrix} -1 & 1 \\ 3 & -6 \end{bmatrix}$, $B = \begin{bmatrix} -4 & 1 \\ 3 & 4 \end{bmatrix}$. Find $-4A - B$. HARD

9. $A = \begin{bmatrix} 4 & -4 \\ 4 & 6 \end{bmatrix}$, $B = \begin{bmatrix} 5 & 1 \\ -2 & -2 \end{bmatrix}$. Find $1A - B$. HARD

10. $A = \begin{bmatrix} 3 & -4 \\ 0 & 1 \end{bmatrix}$, $B = \begin{bmatrix} -5 & 5 \\ -3 & -2 \end{bmatrix}$. Find $3A - B$. HARD