

Name _____ Date _____ Pd _____

CYU 1.5.2 Multiplying Matrices DAY ONE

Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

H Use when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Multiplying Matrices	2, 7, 8	1, 3, 4, 10	5, 6, 9, 11 - 14

Multiply each set of matrices, if possible. If not possible, show why the matrices cannot be multiplied and write undefined.

1. $\begin{bmatrix} 0 & 2 \\ -2 & -5 \end{bmatrix} \cdot \begin{bmatrix} 6 & -6 \\ 3 & 0 \end{bmatrix}$

2. $\begin{bmatrix} 6 \\ -3 \end{bmatrix} \begin{bmatrix} -5 & 4 \end{bmatrix}$

3. $\begin{bmatrix} -5 & -5 \\ -1 & 2 \end{bmatrix} \cdot \begin{bmatrix} -2 & -3 \\ 3 & 5 \end{bmatrix}$

4. $\begin{bmatrix} -3 & 5 \\ -2 & 1 \end{bmatrix} \cdot \begin{bmatrix} 6 & -2 \\ 1 & -5 \end{bmatrix}$

5. $\begin{bmatrix} 0 & -5 \\ -3 & 1 \\ -5 & 1 \end{bmatrix} \begin{bmatrix} -4 & 4 \\ -2 & -4 \end{bmatrix}$

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

7. $\begin{bmatrix} -5 \\ 6 \\ 0 \end{bmatrix} \begin{bmatrix} 3 & -1 \end{bmatrix}$

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

$$9. \begin{bmatrix} 3 & -1 \\ -3 & 6 \\ -6 & -6 \end{bmatrix} \begin{bmatrix} -1 & 6 \\ 5 & 4 \end{bmatrix}$$

$$10. \begin{bmatrix} 5 & 4 \\ 2 & -1 \end{bmatrix} \begin{bmatrix} -4 \\ 3 \end{bmatrix}$$

$$11. \begin{bmatrix} 2 & -5v \end{bmatrix} \cdot \begin{bmatrix} -5u & -v \\ 0 & 6 \end{bmatrix}$$

$$12. \begin{bmatrix} -4 & -y \\ -2x & -4 \end{bmatrix} \begin{bmatrix} -4x & 0 \\ 2y & -5 \end{bmatrix}$$

13. Write an example of a matrix multiplication that is undefined.

14. In the expression $A \cdot B$, if A is a 3×5 matrix then what could be the dimensions of B ?

CYU Reflection: *How far can you go: basic, intermediate, or advanced?*

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

