

4-2 Multiplying Matrices

Lesson Quiz

$$A = \begin{bmatrix} 2 & -2 \\ 3 & 0 \\ 2 & 0 \end{bmatrix}$$

$$B = \begin{bmatrix} 4 & 2 & 3 \\ 2 & 1 & -1 \end{bmatrix}$$

$$C = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 0 \\ 1 & 0 & 0 \end{bmatrix}$$

$$D = \begin{bmatrix} 2 & 0 \\ 0 & 2 \end{bmatrix}$$

Evaluate, if possible.

1. AB

2. BA

3. A^2

4. BD

5. C^3

4-2 Multiplying Matrices

Lesson Quiz

$$A = \begin{bmatrix} 2 & -2 \\ 3 & 0 \\ 2 & 0 \end{bmatrix}$$

$$B = \begin{bmatrix} 4 & 2 & 3 \\ 2 & 1 & -1 \end{bmatrix}$$

$$C = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 0 \\ 1 & 0 & 0 \end{bmatrix}$$

$$D = \begin{bmatrix} 2 & 0 \\ 0 & 2 \end{bmatrix}$$

Evaluate, if possible.

1. $AB = \begin{bmatrix} 4 & 2 & 8 \\ 12 & 6 & 9 \\ 10 & 5 & 5 \end{bmatrix}$

2. $BA = \begin{bmatrix} 20 & -5 \\ 5 & -5 \end{bmatrix}$

3. A^2 not possible

4. BD not possible

5. $C^3 = \begin{bmatrix} 6 & 5 & 3 \\ 5 & 4 & 2 \\ 3 & 2 & 1 \end{bmatrix}$