

Name: \_\_\_\_\_

Date \_\_\_\_\_

Topic : Addition of Matrices - Worksheet 1

Add the following:

$$\begin{array}{r} 1. \quad \begin{array}{ccc} 5 & 9 & 2 \\ 1 & 3 & 3 \\ 4 & 5 & 2 \end{array} + \begin{array}{ccc} 2 & 0 & 2 \\ 1 & 0 & 1 \\ 1 & 1 & 3 \end{array} \end{array}$$

$$\begin{array}{r} 2. \quad \begin{array}{ccc} 4 & 1 & 3 \\ 3 & 2 & 1 \\ 5 & 1 & 6 \end{array} + \begin{array}{ccc} 5 & 0 & 3 \\ 6 & 2 & 8 \\ 4 & 1 & 1 \end{array} \end{array}$$

$$\begin{array}{r} 3. \quad \begin{array}{ccc} 3 & 4 & 3 \\ 2 & 5 & 1 \\ 1 & 6 & 2 \end{array} + \begin{array}{ccc} 6 & 1 & 0 \\ 6 & 0 & 3 \\ 7 & 1 & 0 \end{array} \end{array}$$

$$\begin{array}{r} 4. \quad \begin{array}{ccc} 5 & 6 & 3 \\ 4 & 3 & 1 \\ 1 & 7 & 7 \end{array} + \begin{array}{ccc} 2 & 0 & 4 \\ 5 & 1 & 3 \\ 5 & 0 & 2 \end{array} \end{array}$$

$$\begin{array}{r} 5. \quad \begin{array}{ccc} 5 & 2 & \\ 4 & 1 & \end{array} + \begin{array}{ccc} 3 & 7 & \\ 3 & 1 & \end{array} \end{array}$$

$$\begin{array}{r} 6. \quad \begin{array}{ccc} 6 & 6 & \\ 3 & 1 & \end{array} + \begin{array}{ccc} 2 & 3 & \\ 1 & 0 & \end{array} \end{array}$$

$$7. \quad \begin{array}{ccc} 2 & 4 & 6 \\ 1 & 3 & 3 \end{array} + \begin{array}{ccc} 1 & 3 & 3 \end{array}$$

$$8. \quad \begin{array}{ccc} 9 & 1 & \\ 0 & 8 & \end{array} + \begin{array}{ccc} 0 & 8 & \end{array}$$

$$\begin{array}{r} 9. \quad \begin{array}{ccc} 3 & 5 & 6 \\ 1 & 8 & 3 \end{array} + \begin{array}{ccc} 5 & 1 & 1 \\ 6 & 0 & 3 \end{array} \end{array}$$

$$\begin{array}{r} 10. \quad \begin{array}{ccc} 8 & 2 & \\ 1 & 3 & \end{array} + \begin{array}{ccc} 1 & 5 & \\ 0 & 1 & \end{array} \end{array}$$



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Topic : Addition of Matrices - Worksheet 2

Add the following:

$$\begin{array}{r} 1. \quad \begin{array}{ccc} 3 & 2 & 1 \\ 6 & 5 & 4 \\ 7 & 5 & 9 \end{array} + \begin{array}{ccc} 3 & 5 & 6 \\ 0 & 0 & 2 \\ 0 & 4 & 0 \end{array} \end{array}$$

$$\begin{array}{r} 2. \quad \begin{array}{ccc} 2 & 2 & 1 \\ 1 & 2 & 5 \\ 5 & 3 & 1 \end{array} + \begin{array}{ccc} 6 & 7 & 5 \\ 7 & 0 & 3 \\ 0 & 2 & 3 \end{array} \end{array}$$

$$\begin{array}{r} 3. \quad \begin{array}{ccc} 6 & 2 & 2 \\ 5 & 1 & 3 \\ 5 & 4 & 4 \end{array} + \begin{array}{ccc} 2 & 0 & 1 \\ 2 & 5 & 4 \\ 1 & 2 & 3 \end{array} \end{array}$$

$$\begin{array}{r} 4. \quad \begin{array}{ccc} 4 & 5 & 3 \\ 1 & 1 & 1 \\ 2 & 8 & 3 \end{array} + \begin{array}{ccc} 1 & 1 & 5 \\ 2 & 3 & 4 \\ 5 & 1 & 7 \end{array} \end{array}$$

$$\begin{array}{r} 5. \quad \begin{array}{cc} 1 & 6 \\ 3 & 7 \end{array} + \begin{array}{cc} 1 & 4 \\ 3 & 2 \end{array} \end{array}$$

$$\begin{array}{r} 6. \quad \begin{array}{cc} 0 & 2 \\ 5 & 0 \end{array} + \begin{array}{cc} 3 & 6 \\ 4 & 1 \end{array} \end{array}$$

$$7. \quad \begin{array}{cccc} 2 & 4 & 6 & + & 1 & 3 & 3 \end{array}$$

$$8. \quad \begin{array}{ccc} 3 & 2 & + & 5 & 7 \end{array}$$

$$\begin{array}{r} 9. \quad \begin{array}{ccc} 3 & 2 & 5 \\ 1 & 7 & 2 \end{array} + \begin{array}{ccc} 4 & 8 & 7 \\ 4 & 2 & 0 \end{array} \end{array}$$

$$\begin{array}{r} 10. \quad \begin{array}{cc} 2 & 1 \\ 5 & 6 \end{array} + \begin{array}{cc} 5 & 3 \\ 2 & 0 \end{array} \end{array}$$



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Topic : Addition of Matrices - Worksheet 3

Add the following:

$$\begin{array}{r} 1. \quad \begin{array}{ccc} 5 & 1 & 2 \\ 4 & 2 & 8 \\ 3 & 1 & 1 \end{array} + \begin{array}{ccc} 3 & 2 & 1 \\ 0 & 1 & 1 \\ 4 & 5 & 3 \end{array} \end{array}$$

$$\begin{array}{r} 2. \quad \begin{array}{ccc} 1 & 4 & 5 \\ 6 & 6 & 6 \\ 2 & 2 & 2 \end{array} + \begin{array}{ccc} 0 & 0 & 4 \\ 3 & 1 & 3 \\ 4 & 1 & 5 \end{array} \end{array}$$

$$\begin{array}{r} 3. \quad \begin{array}{ccc} 2 & 4 & 1 \\ 2 & 5 & 5 \\ 4 & 1 & 5 \end{array} + \begin{array}{ccc} 6 & 2 & 3 \\ 5 & 1 & 3 \\ 5 & 1 & 2 \end{array} \end{array}$$

$$\begin{array}{r} 4. \quad \begin{array}{ccc} 6 & 1 & 1 \\ 5 & 2 & 2 \\ 3 & 3 & 3 \end{array} + \begin{array}{ccc} 2 & 3 & 4 \\ 0 & 1 & 0 \\ 2 & 2 & 6 \end{array} \end{array}$$

$$\begin{array}{r} 5. \quad \begin{array}{ccc} 5 & 1 & \\ 2 & 8 & \end{array} + \begin{array}{ccc} 2 & 2 & \\ 5 & 0 & \end{array} \end{array}$$

$$\begin{array}{r} 6. \quad \begin{array}{ccc} 1 & 5 & \\ 1 & 2 & \end{array} + \begin{array}{ccc} 2 & 4 & \\ 7 & 3 & \end{array} \end{array}$$

$$\begin{array}{r} 7. \quad \begin{array}{ccc} 5 & 5 & 5 \\ & & \end{array} + \begin{array}{ccc} 1 & 0 & 1 \\ & & \end{array} \end{array}$$

$$\begin{array}{r} 8. \quad \begin{array}{ccc} 2 & 5 & \\ & & \end{array} + \begin{array}{ccc} 6 & 6 & \\ & & \end{array} \end{array}$$

$$\begin{array}{r} 9. \quad \begin{array}{ccc} 1 & 2 & 9 \\ 5 & 2 & 1 \end{array} + \begin{array}{ccc} 0 & 0 & 1 \\ 2 & 3 & 0 \end{array} \end{array}$$

$$\begin{array}{r} 10. \quad \begin{array}{ccc} 8 & 5 & \\ 4 & 2 & \end{array} + \begin{array}{ccc} 1 & 3 & \\ 4 & 5 & \end{array} \end{array}$$



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Topic : Addition of Matrices - Worksheet 4

Add the following:

$$\begin{array}{r} 1. \quad \begin{array}{ccc} 3 & 3 & 4 \\ 5 & 4 & 1 \\ 2 & 5 & 7 \end{array} + \begin{array}{ccc} 2 & 3 & 5 \\ 4 & 2 & 2 \\ 0 & 0 & 5 \end{array} \end{array}$$

$$\begin{array}{r} 2. \quad \begin{array}{ccc} 7 & 5 & 4 \\ 1 & 1 & 1 \\ 3 & 5 & 4 \end{array} + \begin{array}{ccc} 1 & 1 & 8 \\ 2 & 0 & 6 \\ 2 & 1 & 5 \end{array} \end{array}$$

$$\begin{array}{r} 3. \quad \begin{array}{ccc} 5 & 5 & 5 \\ 3 & 6 & 8 \\ 7 & 3 & 1 \end{array} + \begin{array}{ccc} 4 & 4 & 4 \\ 1 & 0 & 0 \\ 1 & 0 & 8 \end{array} \end{array}$$

$$\begin{array}{r} 4. \quad \begin{array}{ccc} 4 & 5 & 7 \\ 3 & 8 & 8 \\ 1 & 5 & 1 \end{array} + \begin{array}{ccc} 2 & 2 & 2 \\ 1 & 0 & 1 \\ 5 & 0 & 5 \end{array} \end{array}$$

$$\begin{array}{r} 5. \quad \begin{array}{cc} 1 & 1 \\ 2 & 1 \end{array} + \begin{array}{cc} 0 & 1 \\ 7 & 3 \end{array} \end{array}$$

$$\begin{array}{r} 6. \quad \begin{array}{cc} 8 & 8 \\ 5 & 3 \end{array} + \begin{array}{cc} 0 & 1 \\ 3 & 5 \end{array} \end{array}$$

$$\begin{array}{r} 7. \quad \begin{array}{ccc} 1 & 3 & 4 \end{array} + \begin{array}{ccc} 2 & 5 & 5 \end{array}$$

$$\begin{array}{r} 8. \quad \begin{array}{cc} 1 & 6 \end{array} + \begin{array}{cc} 8 & 0 \end{array}$$

$$\begin{array}{r} 9. \quad \begin{array}{ccc} 2 & 5 & 8 \\ 4 & 3 & 2 \end{array} + \begin{array}{ccc} 1 & 1 & 1 \\ 5 & 5 & 3 \end{array} \end{array}$$

$$\begin{array}{r} 10. \quad \begin{array}{cc} 8 & 2 \\ 7 & 2 \end{array} + \begin{array}{cc} 0 & 5 \\ 1 & 6 \end{array} \end{array}$$



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Topic: Addition of Matrices - Worksheet 5

Add the following:

$$\begin{array}{r} 1. \quad \begin{array}{ccc} 6 & 4 & 4 \\ 3 & 2 & 1 \\ 1 & 2 & 5 \end{array} + \begin{array}{ccc} 3 & 2 & 5 \\ 4 & 1 & 1 \\ 6 & 7 & 6 \end{array} \end{array}$$

$$\begin{array}{r} 2. \quad \begin{array}{ccc} 2 & 2 & 8 \\ 5 & 5 & 5 \\ 1 & 0 & 1 \end{array} + \begin{array}{ccc} 6 & 6 & 5 \\ 1 & 0 & 0 \\ 4 & 4 & 5 \end{array} \end{array}$$

$$\begin{array}{r} 3. \quad \begin{array}{ccc} 4 & 2 & 3 \\ 1 & 8 & 1 \\ 6 & 5 & 6 \end{array} + \begin{array}{ccc} 4 & 5 & 6 \\ 8 & 1 & 1 \\ 0 & 0 & 7 \end{array} \end{array}$$

$$\begin{array}{r} 4. \quad \begin{array}{ccc} 1 & 5 & 4 \\ 5 & 1 & 1 \\ 7 & 6 & 3 \end{array} + \begin{array}{ccc} 5 & 3 & 6 \\ 0 & 0 & 5 \\ 1 & 1 & 6 \end{array} \end{array}$$

$$\begin{array}{r} 5. \quad \begin{array}{cc} 1 & 4 \\ 3 & 4 \end{array} + \begin{array}{cc} 5 & 6 \\ 4 & 4 \end{array} \end{array}$$

$$\begin{array}{r} 6. \quad \begin{array}{cc} 1 & 6 \\ 7 & 4 \end{array} + \begin{array}{cc} 3 & 0 \\ 0 & 4 \end{array} \end{array}$$

$$\begin{array}{r} 7. \quad \begin{array}{ccc} 1 & 2 & 1 \end{array} + \begin{array}{ccc} 7 & 7 & 6 \end{array}$$

$$\begin{array}{r} 8. \quad \begin{array}{cc} 5 & 9 \end{array} + \begin{array}{cc} 1 & 0 \end{array}$$

$$\begin{array}{r} 9. \quad \begin{array}{ccc} 3 & 4 & 4 \\ 7 & 7 & 5 \end{array} + \begin{array}{ccc} 5 & 0 & 5 \\ 1 & 1 & 2 \end{array} \end{array}$$

$$\begin{array}{r} 10. \quad \begin{array}{cc} 2 & 2 \\ 2 & 8 \end{array} + \begin{array}{cc} 5 & 0 \\ 5 & 0 \end{array} \end{array}$$

