

# Matrices

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

Date: \_\_\_\_\_

## Using Diagonal method matrices.

1) 
$$\begin{bmatrix} 13 & -2 & 10 \\ 6 & 6 & -3 \\ -4 & 8 & 9 \end{bmatrix}$$

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1818

2) 
$$\begin{bmatrix} 3 & 9 & 11 \\ 6 & -7 & 1 \\ 9 & 8 & -2 \end{bmatrix}$$

3) 
$$\begin{bmatrix} 12 & 1 & 0 \\ 5 & -13 & 7 \\ 6 & 2 & 9 \end{bmatrix}$$

## Expand along Row1.

4) 
$$\begin{bmatrix} 16 & 2 & -5 \\ 9 & -12 & 3 \\ 7 & 5 & -8 \end{bmatrix}$$

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837

5) 
$$\begin{bmatrix} 4 & 3 & 6 \\ 18 & -7 & 2 \\ 5 & 9 & 11 \end{bmatrix}$$

6) 
$$\begin{bmatrix} 13 & 8 & 7 \\ 5 & -2 & 4 \\ 6 & 8 & 3 \end{bmatrix}$$

## Expand along Row2.

1) 
$$\begin{bmatrix} 6 & 9 & 12 \\ 4 & 5 & -2 \\ 3 & -5 & 1 \end{bmatrix}$$

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-540

2) 
$$\begin{bmatrix} 1 & 7 & 1 \\ 3 & -1 & 1 \\ 5 & 1 & 7 \end{bmatrix}$$

3) 
$$\begin{bmatrix} 6 & -2 & 8 \\ 16 & 9 & 11 \\ -3 & 10 & 7 \end{bmatrix}$$

## Expand along Row3.

4) 
$$\begin{bmatrix} 9 & 7 & 3 \\ -7 & 0 & 5 \\ 2 & -1 & 8 \end{bmatrix}$$

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528

5) 
$$\begin{bmatrix} 11 & 13 & 7 \\ 2 & -1 & 8 \\ 15 & -7 & 6 \end{bmatrix}$$

6) 
$$\begin{bmatrix} 15 & 9 & 13 \\ 2 & -8 & 4 \\ 5 & 1 & -7 \end{bmatrix}$$

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1) 
$$\begin{bmatrix} 13 & -2 & 10 \\ 6 & 6 & -3 \\ -4 & 8 & 9 \end{bmatrix}$$

---

1818

2) 
$$\begin{bmatrix} 3 & 9 & 11 \\ 6 & -7 & 1 \\ 9 & 8 & -2 \end{bmatrix}$$

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1428

3) 
$$\begin{bmatrix} 12 & 1 & 0 \\ 5 & -13 & 7 \\ 6 & 2 & 9 \end{bmatrix}$$

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-1575

## Expand along Row1.

4) 
$$\begin{bmatrix} 16 & 2 & -5 \\ 9 & -12 & 3 \\ 7 & 5 & -8 \end{bmatrix}$$

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837

5) 
$$\begin{bmatrix} 4 & 3 & 6 \\ 18 & -7 & 2 \\ 5 & 9 & 11 \end{bmatrix}$$

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238

6) 
$$\begin{bmatrix} 13 & 8 & 7 \\ 5 & -2 & 4 \\ 6 & 8 & 3 \end{bmatrix}$$

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-58

## Expand along Row2.

1) 
$$\begin{bmatrix} 6 & 9 & 12 \\ 4 & 5 & -2 \\ 3 & -5 & 1 \end{bmatrix}$$

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-540

2) 
$$\begin{bmatrix} 1 & 7 & 1 \\ 3 & -1 & 1 \\ 5 & 1 & 7 \end{bmatrix}$$

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-112

3) 
$$\begin{bmatrix} 6 & -2 & 8 \\ 16 & 9 & 11 \\ -3 & 10 & 7 \end{bmatrix}$$

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1504

## Expand along Row3.

4) 
$$\begin{bmatrix} 9 & 7 & 3 \\ -7 & 0 & 5 \\ 2 & -1 & 8 \end{bmatrix}$$

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528

5) 
$$\begin{bmatrix} 11 & 13 & 7 \\ 2 & -1 & 8 \\ 15 & -7 & 6 \end{bmatrix}$$

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1961

6) 
$$\begin{bmatrix} 15 & 9 & 13 \\ 2 & -8 & 4 \\ 5 & 1 & -7 \end{bmatrix}$$

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1632