

Matrices

Name: _____

Date: _____

Using Diagonal method matrices.

1)
$$\begin{bmatrix} 3 & -14 & 21 \\ -7 & 9 & 15 \\ 10 & -2 & 1 \end{bmatrix}$$

2)
$$\begin{bmatrix} 8 & 9 & -4 \\ 1 & -7 & 14 \\ 10 & 1 & 8 \end{bmatrix}$$

3)
$$\begin{bmatrix} 3 & 4 & 6 \\ 8 & -14 & 7 \\ 8 & 2 & 4 \end{bmatrix}$$

Expand along Column1.

4)
$$\begin{bmatrix} -5 & 9 & 10 \\ -3 & 7 & 12 \\ 13 & 4 & 8 \end{bmatrix}$$

5)
$$\begin{bmatrix} 17 & 11 & -15 \\ 8 & -12 & 16 \\ 9 & 4 & 5 \end{bmatrix}$$

6)
$$\begin{bmatrix} 14 & 3 & 7 \\ 9 & -13 & -17 \\ -9 & 4 & 5 \end{bmatrix}$$

Expand along Column2.

1)
$$\begin{bmatrix} -3 & -13 & 9 \\ 8 & 1 & 4 \\ 7 & 2 & 3 \end{bmatrix}$$

2)
$$\begin{bmatrix} 12 & 2 & 8 \\ 10 & -7 & 9 \\ 2 & 3 & 5 \end{bmatrix}$$

3)
$$\begin{bmatrix} 13 & 16 & 10 \\ -17 & -4 & 5 \\ 7 & 1 & 3 \end{bmatrix}$$

Expand along Column3.

4)
$$\begin{bmatrix} 6 & 7 & -13 \\ 8 & 9 & 4 \\ 10 & -3 & 2 \end{bmatrix}$$

5)
$$\begin{bmatrix} 13 & 4 & -7 \\ 14 & -5 & 9 \\ 18 & 9 & 13 \end{bmatrix}$$

6)
$$\begin{bmatrix} 17 & 2 & 9 \\ 6 & -7 & 8 \\ 4 & 7 & 3 \end{bmatrix}$$

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1)
$$\begin{bmatrix} 3 & -14 & 21 \\ -7 & 9 & 15 \\ 10 & -2 & 1 \end{bmatrix}$$

-3677

2)
$$\begin{bmatrix} 8 & 9 & -4 \\ 1 & -7 & 14 \\ 10 & 1 & 8 \end{bmatrix}$$

344

3)
$$\begin{bmatrix} 3 & 4 & 6 \\ 8 & -14 & 7 \\ 8 & 2 & 4 \end{bmatrix}$$

654

Expand along Column1.

4)
$$\begin{bmatrix} -5 & 9 & 10 \\ -3 & 7 & 12 \\ 13 & 4 & 8 \end{bmatrix}$$

550

5)
$$\begin{bmatrix} 17 & 11 & -15 \\ 8 & -12 & 16 \\ 9 & 4 & 5 \end{bmatrix}$$

-3064

6)
$$\begin{bmatrix} 14 & 3 & 7 \\ 9 & -13 & -17 \\ -9 & 4 & 5 \end{bmatrix}$$

-201

Expand along Column2.

1)
$$\begin{bmatrix} -3 & -13 & 9 \\ 8 & 1 & 4 \\ 7 & 2 & 3 \end{bmatrix}$$

44

2)
$$\begin{bmatrix} 12 & 2 & 8 \\ 10 & -7 & 9 \\ 2 & 3 & 5 \end{bmatrix}$$

-456

3)
$$\begin{bmatrix} 13 & 16 & 10 \\ -17 & -4 & 5 \\ 7 & 1 & 3 \end{bmatrix}$$

1265

Expand along Column3.

4)
$$\begin{bmatrix} 6 & 7 & -13 \\ 8 & 9 & 4 \\ 10 & -3 & 2 \end{bmatrix}$$

1830

5)
$$\begin{bmatrix} 13 & 4 & -7 \\ 14 & -5 & 9 \\ 18 & 9 & 13 \end{bmatrix}$$

-3490

6)
$$\begin{bmatrix} 17 & 2 & 9 \\ 6 & -7 & 8 \\ 4 & 7 & 3 \end{bmatrix}$$

-651