

Matrices

Name: _____

Date: _____

Using Diagonal method matrices.

1)
$$\begin{bmatrix} 12 & -4 & 6 \\ 9 & 3 & -8 \\ -10 & 2 & 14 \end{bmatrix}$$

2)
$$\begin{bmatrix} 9 & 13 & 15 \\ -8 & -10 & 14 \\ 23 & 18 & -4 \end{bmatrix}$$

3)
$$\begin{bmatrix} 4 & 10 & 15 \\ 16 & -17 & 10 \\ 6 & 2 & -11 \end{bmatrix}$$

Expand along Row1.

4)
$$\begin{bmatrix} 20 & 4 & -8 \\ 16 & -11 & 19 \\ -7 & 5 & -13 \end{bmatrix}$$

5)
$$\begin{bmatrix} 10 & 14 & 20 \\ 15 & -16 & 21 \\ 7 & 1 & 12 \end{bmatrix}$$

6)
$$\begin{bmatrix} 6 & 9 & 20 \\ 13 & -15 & 18 \\ 3 & 4 & 0 \end{bmatrix}$$

Expand along Row2.

1)
$$\begin{bmatrix} 13 & 24 & 21 \\ 8 & 5 & -17 \\ 0 & -9 & 2 \end{bmatrix}$$

2)
$$\begin{bmatrix} -4 & 13 & 22 \\ 9 & -24 & 3 \\ 8 & 9 & 18 \end{bmatrix}$$

3)
$$\begin{bmatrix} 2 & -17 & 22 \\ 15 & 5 & 0 \\ -3 & 11 & 9 \end{bmatrix}$$

Expand along Row3.

4)
$$\begin{bmatrix} 11 & 16 & 21 \\ -30 & 2 & 0 \\ 1 & -3 & 7 \end{bmatrix}$$

5)
$$\begin{bmatrix} 5 & 14 & 1 \\ 6 & 7 & -14 \\ 22 & -8 & 5 \end{bmatrix}$$

6)
$$\begin{bmatrix} 16 & -2 & 12 \\ 17 & 2 & 3 \\ 8 & 9 & -13 \end{bmatrix}$$

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1)
$$\begin{bmatrix} 12 & -4 & 6 \\ 9 & 3 & -8 \\ -10 & 2 & 14 \end{bmatrix}$$

1168

2)
$$\begin{bmatrix} 9 & 13 & 15 \\ -8 & -10 & 14 \\ 23 & 18 & -4 \end{bmatrix}$$

3152

3)
$$\begin{bmatrix} 4 & 10 & 15 \\ 16 & -17 & 10 \\ 6 & 2 & -11 \end{bmatrix}$$

5038

Expand along Row1.

4)
$$\begin{bmatrix} 20 & 4 & -8 \\ 16 & -11 & 19 \\ -7 & 5 & -13 \end{bmatrix}$$

1236

5)
$$\begin{bmatrix} 10 & 14 & 20 \\ 15 & -16 & 21 \\ 7 & 1 & 12 \end{bmatrix}$$

-52

6)
$$\begin{bmatrix} 6 & 9 & 20 \\ 13 & -15 & 18 \\ 3 & 4 & 0 \end{bmatrix}$$

1994

Expand along Row2.

1)
$$\begin{bmatrix} 13 & 24 & 21 \\ 8 & 5 & -17 \\ 0 & -9 & 2 \end{bmatrix}$$

-3755

2)
$$\begin{bmatrix} -4 & 13 & 22 \\ 9 & -24 & 3 \\ 8 & 9 & 18 \end{bmatrix}$$

6048

3)
$$\begin{bmatrix} 2 & -17 & 22 \\ 15 & 5 & 0 \\ -3 & 11 & 9 \end{bmatrix}$$

6345

Expand along Row3.

4)
$$\begin{bmatrix} 11 & 16 & 21 \\ -30 & 2 & 0 \\ 1 & -3 & 7 \end{bmatrix}$$

5362

5)
$$\begin{bmatrix} 5 & 14 & 1 \\ 6 & 7 & -14 \\ 22 & -8 & 5 \end{bmatrix}$$

-5319

6)
$$\begin{bmatrix} 16 & -2 & 12 \\ 17 & 2 & 3 \\ 8 & 9 & -13 \end{bmatrix}$$

306