

Matrices

Name: _____

Date: _____

Using Diagonal method matrices.

1)
$$\begin{bmatrix} 11 & -5 & 7 \\ 10 & 2 & -9 \\ -6 & 3 & 15 \end{bmatrix}$$

2)
$$\begin{bmatrix} 12 & 24 & 11 \\ -10 & -15 & 4 \\ 3 & 8 & -7 \end{bmatrix}$$

3)
$$\begin{bmatrix} 9 & 12 & 24 \\ 15 & -5 & 6 \\ 12 & 1 & -10 \end{bmatrix}$$

Expand along Row1.

4)
$$\begin{bmatrix} 23 & 6 & -5 \\ 8 & -5 & 21 \\ -12 & 3 & -14 \end{bmatrix}$$

5)
$$\begin{bmatrix} 17 & 12 & 24 \\ 16 & -2 & 4 \\ 2 & 0 & 21 \end{bmatrix}$$

6)
$$\begin{bmatrix} 7 & 10 & 12 \\ 16 & -17 & 2 \\ 8 & 0 & 0 \end{bmatrix}$$

Expand along Row2.

1)
$$\begin{bmatrix} 12 & 6 & 3 \\ 4 & 2 & -8 \\ 1 & -11 & 5 \end{bmatrix}$$

2)
$$\begin{bmatrix} -9 & 31 & 4 \\ 17 & -6 & 4 \\ 9 & 10 & 19 \end{bmatrix}$$

3)
$$\begin{bmatrix} 3 & -19 & 4 \\ 9 & 14 & 7 \\ -16 & 17 & 11 \end{bmatrix}$$

Expand along Row3.

4)
$$\begin{bmatrix} 16 & 24 & 12 \\ -23 & 0 & 1 \\ 5 & -7 & 9 \end{bmatrix}$$

5)
$$\begin{bmatrix} 2 & 17 & 8 \\ 3 & 0 & -16 \\ 0 & -4 & 9 \end{bmatrix}$$

6)
$$\begin{bmatrix} 7 & -1 & 3 \\ 8 & 1 & 8 \\ 9 & 0 & -4 \end{bmatrix}$$

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1)
$$\begin{bmatrix} 11 & -5 & 7 \\ 10 & 2 & -9 \\ -6 & 3 & 15 \end{bmatrix}$$

1401

2)
$$\begin{bmatrix} 12 & 24 & 11 \\ -10 & -15 & 4 \\ 3 & 8 & -7 \end{bmatrix}$$

-901

3)
$$\begin{bmatrix} 9 & 12 & 24 \\ 15 & -5 & 6 \\ 12 & 1 & -10 \end{bmatrix}$$

4860

Expand along Row1.

4)
$$\begin{bmatrix} 23 & 6 & -5 \\ 8 & -5 & 21 \\ -12 & 3 & -14 \end{bmatrix}$$

-499

5)
$$\begin{bmatrix} 17 & 12 & 24 \\ 16 & -2 & 4 \\ 2 & 0 & 21 \end{bmatrix}$$

-4554

6)
$$\begin{bmatrix} 7 & 10 & 12 \\ 16 & -17 & 2 \\ 8 & 0 & 0 \end{bmatrix}$$

1792

Expand along Row2.

1)
$$\begin{bmatrix} 12 & 6 & 3 \\ 4 & 2 & -8 \\ 1 & -11 & 5 \end{bmatrix}$$

-1242

2)
$$\begin{bmatrix} -9 & 31 & 4 \\ 17 & -6 & 4 \\ 9 & 10 & 19 \end{bmatrix}$$

-6615

3)
$$\begin{bmatrix} 3 & -19 & 4 \\ 9 & 14 & 7 \\ -16 & 17 & 11 \end{bmatrix}$$

5622

Expand along Row3.

4)
$$\begin{bmatrix} 16 & 24 & 12 \\ -23 & 0 & 1 \\ 5 & -7 & 9 \end{bmatrix}$$

7132

5)
$$\begin{bmatrix} 2 & 17 & 8 \\ 3 & 0 & -16 \\ 0 & -4 & 9 \end{bmatrix}$$

-683

6)
$$\begin{bmatrix} 7 & -1 & 3 \\ 8 & 1 & 8 \\ 9 & 0 & -4 \end{bmatrix}$$

-159