

Matrices

Name: _____

Date: _____

Using Diagonal method matrices.

1)
$$\begin{bmatrix} 11 & -3 & 5 \\ 8 & 2 & -7 \\ -6 & 0 & 10 \end{bmatrix}$$

2)
$$\begin{bmatrix} 6 & 12 & 14 \\ -7 & -9 & 15 \\ 22 & 17 & -5 \end{bmatrix}$$

3)
$$\begin{bmatrix} 3 & 9 & 16 \\ 17 & -18 & 9 \\ 5 & 1 & -10 \end{bmatrix}$$

Expand along Row1.

4)
$$\begin{bmatrix} 19 & 3 & -7 \\ 14 & -10 & 18 \\ -8 & 6 & -15 \end{bmatrix}$$

5)
$$\begin{bmatrix} 9 & 13 & 25 \\ 12 & -17 & 22 \\ 6 & 0 & 15 \end{bmatrix}$$

6)
$$\begin{bmatrix} 4 & 7 & 18 \\ 14 & -16 & 17 \\ 2 & 3 & 1 \end{bmatrix}$$

Expand along Row2.

1)
$$\begin{bmatrix} 12 & 22 & 24 \\ 7 & 14 & -16 \\ 3 & -5 & 1 \end{bmatrix}$$

2)
$$\begin{bmatrix} -3 & 14 & 21 \\ 19 & -23 & 0 \\ 7 & 8 & 26 \end{bmatrix}$$

3)
$$\begin{bmatrix} 1 & -14 & 27 \\ 6 & 7 & 2 \\ -5 & 15 & 8 \end{bmatrix}$$

Expand along Row3.

4)
$$\begin{bmatrix} 22 & 8 & 13 \\ -2 & 7 & 9 \\ 16 & -11 & 6 \end{bmatrix}$$

5)
$$\begin{bmatrix} 4 & 20 & 2 \\ 3 & 9 & -16 \\ 17 & -5 & 4 \end{bmatrix}$$

6)
$$\begin{bmatrix} 21 & -7 & 24 \\ 18 & 9 & 17 \\ 6 & 5 & -3 \end{bmatrix}$$

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1)
$$\begin{bmatrix} 11 & -3 & 5 \\ 8 & 2 & -7 \\ -6 & 0 & 10 \end{bmatrix}$$

394

2)
$$\begin{bmatrix} 6 & 12 & 14 \\ -7 & -9 & 15 \\ 22 & 17 & -5 \end{bmatrix}$$

3386

3)
$$\begin{bmatrix} 3 & 9 & 16 \\ 17 & -18 & 9 \\ 5 & 1 & -10 \end{bmatrix}$$

4160

Expand along Row1.

4)
$$\begin{bmatrix} 19 & 3 & -7 \\ 14 & -10 & 18 \\ -8 & 6 & -15 \end{bmatrix}$$

968

5)
$$\begin{bmatrix} 9 & 13 & 25 \\ 12 & -17 & 22 \\ 6 & 0 & 15 \end{bmatrix}$$

-369

6)
$$\begin{bmatrix} 4 & 7 & 18 \\ 14 & -16 & 17 \\ 2 & 3 & 1 \end{bmatrix}$$

1204

Expand along Row2.

1)
$$\begin{bmatrix} 12 & 22 & 24 \\ 7 & 14 & -16 \\ 3 & -5 & 1 \end{bmatrix}$$

-3850

2)
$$\begin{bmatrix} -3 & 14 & 21 \\ 19 & -23 & 0 \\ 7 & 8 & 26 \end{bmatrix}$$

1451

3)
$$\begin{bmatrix} 1 & -14 & 27 \\ 6 & 7 & 2 \\ -5 & 15 & 8 \end{bmatrix}$$

4213

Expand along Row3.

4)
$$\begin{bmatrix} 22 & 8 & 13 \\ -2 & 7 & 9 \\ 16 & -11 & 6 \end{bmatrix}$$

3180

5)
$$\begin{bmatrix} 4 & 20 & 2 \\ 3 & 9 & -16 \\ 17 & -5 & 4 \end{bmatrix}$$

-6192

6)
$$\begin{bmatrix} 21 & -7 & 24 \\ 18 & 9 & 17 \\ 6 & 5 & -3 \end{bmatrix}$$

-2580