

Matrices

Name: _____

Date: _____

Using Diagonal method matrices.

1)
$$\begin{bmatrix} 5 & -13 & 22 \\ -8 & 10 & 16 \\ 14 & -9 & 2 \end{bmatrix}$$

2)
$$\begin{bmatrix} 5 & 4 & -3 \\ 7 & -2 & 1 \\ 14 & 3 & 8 \end{bmatrix}$$

3)
$$\begin{bmatrix} 5 & 9 & 12 \\ 4 & -11 & 6 \\ 8 & 3 & 7 \end{bmatrix}$$

Expand along Column1.

4)
$$\begin{bmatrix} 9 & 12 & 8 \\ 4 & 2 & 14 \\ 17 & 5 & 9 \end{bmatrix}$$

5)
$$\begin{bmatrix} 11 & 7 & -6 \\ 8 & -5 & 14 \\ 13 & 12 & 9 \end{bmatrix}$$

6)
$$\begin{bmatrix} 9 & 4 & 2 \\ 10 & -15 & -16 \\ -2 & 7 & 15 \end{bmatrix}$$

Expand along Column2.

1)
$$\begin{bmatrix} 4 & -15 & 11 \\ 7 & 6 & 3 \\ 2 & 8 & 9 \end{bmatrix}$$

2)
$$\begin{bmatrix} 14 & 4 & 10 \\ 18 & -2 & 7 \\ 3 & 8 & 6 \end{bmatrix}$$

3)
$$\begin{bmatrix} 17 & 15 & 9 \\ -16 & -5 & 8 \\ 2 & 0 & 6 \end{bmatrix}$$

Expand along Column3.

4)
$$\begin{bmatrix} 9 & 10 & -15 \\ 7 & 11 & 4 \\ 5 & -1 & 3 \end{bmatrix}$$

5)
$$\begin{bmatrix} 17 & 2 & -9 \\ 12 & -8 & 6 \\ 22 & 10 & 18 \end{bmatrix}$$

6)
$$\begin{bmatrix} 24 & 3 & 8 \\ 17 & -2 & 10 \\ 9 & 2 & 4 \end{bmatrix}$$

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1)
$$\begin{bmatrix} 5 & -13 & 22 \\ -8 & 10 & 16 \\ 14 & -9 & 2 \end{bmatrix}$$

-3796

2)
$$\begin{bmatrix} 5 & 4 & -3 \\ 7 & -2 & 1 \\ 14 & 3 & 8 \end{bmatrix}$$

-410

3)
$$\begin{bmatrix} 5 & 9 & 12 \\ 4 & -11 & 6 \\ 8 & 3 & 7 \end{bmatrix}$$

905

Expand along Column1.

4)
$$\begin{bmatrix} 9 & 12 & 8 \\ 4 & 2 & 14 \\ 17 & 5 & 9 \end{bmatrix}$$

1844

5)
$$\begin{bmatrix} 11 & 7 & -6 \\ 8 & -5 & 14 \\ 13 & 12 & 9 \end{bmatrix}$$

-2539

6)
$$\begin{bmatrix} 9 & 4 & 2 \\ 10 & -15 & -16 \\ -2 & 7 & 15 \end{bmatrix}$$

-1409

Expand along Column2.

1)
$$\begin{bmatrix} 4 & -15 & 11 \\ 7 & 6 & 3 \\ 2 & 8 & 9 \end{bmatrix}$$

1459

2)
$$\begin{bmatrix} 14 & 4 & 10 \\ 18 & -2 & 7 \\ 3 & 8 & 6 \end{bmatrix}$$

200

3)
$$\begin{bmatrix} 17 & 15 & 9 \\ -16 & -5 & 8 \\ 2 & 0 & 6 \end{bmatrix}$$

1260

Expand along Column3.

4)
$$\begin{bmatrix} 9 & 10 & -15 \\ 7 & 11 & 4 \\ 5 & -1 & 3 \end{bmatrix}$$

1253

5)
$$\begin{bmatrix} 17 & 2 & -9 \\ 12 & -8 & 6 \\ 22 & 10 & 18 \end{bmatrix}$$

-6300

6)
$$\begin{bmatrix} 24 & 3 & 8 \\ 17 & -2 & 10 \\ 9 & 2 & 4 \end{bmatrix}$$

-190
