

Matrices

Name: _____

Date: _____

Using Diagonal method matrices.

1)
$$\begin{bmatrix} 9 & 11 & 17 \\ 2 & 5 & 8 \\ 0 & 1 & 7 \end{bmatrix}$$

123

2)
$$\begin{bmatrix} 7 & 0 & 2 \\ 6 & -11 & 7 \\ 2 & 4 & 8 \end{bmatrix}$$

3)
$$\begin{bmatrix} 6 & 12 & 2 \\ 8 & -13 & 3 \\ 7 & 2 & 9 \end{bmatrix}$$

Expand along Column1.

4)
$$\begin{bmatrix} -15 & 2 & 7 \\ 2 & 8 & 3 \\ 9 & 6 & 14 \end{bmatrix}$$

-1832

5)
$$\begin{bmatrix} 6 & 9 & 7 \\ 12 & -7 & 10 \\ 3 & 8 & 2 \end{bmatrix}$$

6)
$$\begin{bmatrix} 6 & 9 & 13 \\ 12 & -2 & -7 \\ -4 & 3 & 2 \end{bmatrix}$$

Expand along Column2.

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

-196

2)
$$\begin{bmatrix} 8 & 3 & 5 \\ 7 & -9 & 4 \\ 1 & 2 & 6 \end{bmatrix}$$

3)
$$\begin{bmatrix} 9 & 9 & 4 \\ 5 & -5 & 2 \\ 3 & 7 & 2 \end{bmatrix}$$

Expand along Column3.

4)
$$\begin{bmatrix} -4 & -9 & -13 \\ 9 & 7 & 2 \\ 5 & 4 & 3 \end{bmatrix}$$

88

5)
$$\begin{bmatrix} 11 & 2 & 9 \\ 13 & -5 & 4 \\ 12 & 0 & 6 \end{bmatrix}$$

6)
$$\begin{bmatrix} 16 & 2 & 9 \\ 8 & -8 & 4 \\ 2 & 7 & 5 \end{bmatrix}$$

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1)
$$\begin{bmatrix} 9 & 11 & 17 \\ 2 & 5 & 8 \\ 0 & 1 & 7 \end{bmatrix}$$

123

2)
$$\begin{bmatrix} 7 & 0 & 2 \\ 6 & -11 & 7 \\ 2 & 4 & 8 \end{bmatrix}$$

-720

3)
$$\begin{bmatrix} 6 & 12 & 2 \\ 8 & -13 & 3 \\ 7 & 2 & 9 \end{bmatrix}$$

-1136

Expand along Column1.

4)
$$\begin{bmatrix} -15 & 2 & 7 \\ 2 & 8 & 3 \\ 9 & 6 & 14 \end{bmatrix}$$

-1832

5)
$$\begin{bmatrix} 6 & 9 & 7 \\ 12 & -7 & 10 \\ 3 & 8 & 2 \end{bmatrix}$$

309

6)
$$\begin{bmatrix} 6 & 9 & 13 \\ 12 & -2 & -7 \\ -4 & 3 & 2 \end{bmatrix}$$

502

Expand along Column2.

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

-196

2)
$$\begin{bmatrix} 8 & 3 & 5 \\ 7 & -9 & 4 \\ 1 & 2 & 6 \end{bmatrix}$$

-495

3)
$$\begin{bmatrix} 9 & 9 & 4 \\ 5 & -5 & 2 \\ 3 & 7 & 2 \end{bmatrix}$$

-52

Expand along Column3.

4)
$$\begin{bmatrix} -4 & -9 & -13 \\ 9 & 7 & 2 \\ 5 & 4 & 3 \end{bmatrix}$$

88

5)
$$\begin{bmatrix} 11 & 2 & 9 \\ 13 & -5 & 4 \\ 12 & 0 & 6 \end{bmatrix}$$

150

6)
$$\begin{bmatrix} 16 & 2 & 9 \\ 8 & -8 & 4 \\ 2 & 7 & 5 \end{bmatrix}$$

-504