

Math Worksheets

Adding and Subtracting Matrices

 Simplify.

$$1) \begin{vmatrix} -4 & 3 & -4 \end{vmatrix} + \begin{vmatrix} 0 & -3 & -3 \end{vmatrix}$$

$$2) \begin{vmatrix} 4 & 3 \\ -1 & -5 \\ -6 & 1 \end{vmatrix} + \begin{vmatrix} 1 & -4 \\ 1 & 5 \\ 6 & 2 \end{vmatrix}$$

$$3) \begin{vmatrix} -2 & 2 & -4 \\ 4 & -2 & -1 \end{vmatrix} - \begin{vmatrix} 6 & 0 & -4 \\ 1 & 4 & -4 \end{vmatrix}$$

$$4) \begin{vmatrix} 6 & 2 \end{vmatrix} + \begin{vmatrix} -3 & -7 \end{vmatrix}$$

$$5) \begin{vmatrix} 3 \\ 2 \end{vmatrix} + \begin{vmatrix} 5 \\ 8 \end{vmatrix}$$

$$6) \begin{vmatrix} -4r + 5t \\ -2r \\ 3s \end{vmatrix} + \begin{vmatrix} 4r \\ -3t \\ -7r + 1 \end{vmatrix}$$

$$7) \begin{vmatrix} 3z - 4 \\ -8 \\ -2 - 5z \\ 3y \end{vmatrix} + \begin{vmatrix} -y \\ 3z \\ 6 + z \\ 7z \end{vmatrix}$$

$$8) \begin{vmatrix} -2n & 3n + m \\ -4n & -7m \end{vmatrix} + \begin{vmatrix} 5 & -4 \\ 2m & m \end{vmatrix}$$

$$9) \begin{vmatrix} 3 & 8 \\ -6 & 4 \end{vmatrix} - \begin{vmatrix} 2 & -3 \\ 4 & 11 \end{vmatrix}$$

$$10) \begin{vmatrix} 0 & -2 & 3 \\ 2 & -3 & 4 \\ -7 & 3 & -8 \end{vmatrix} + \begin{vmatrix} -5 & 8 & -9 \\ 7 & 2 & 7 \\ 5 & -5 & -6 \end{vmatrix}$$

Answers of Worksheets

Adding and Subtracting Matrices

$$1) \begin{vmatrix} -4 & 0 & -7 \end{vmatrix}$$

$$2) \begin{vmatrix} 5 & -1 \\ 0 & 0 \\ 0 & 3 \end{vmatrix}$$

$$3) \begin{vmatrix} -8 & 2 & 0 \\ 3 & -6 & 3 \end{vmatrix}$$

$$4) \begin{vmatrix} 3 & -5 \end{vmatrix}$$

$$5) \begin{vmatrix} 8 \\ 10 \end{vmatrix}$$

$$6) \begin{vmatrix} 5t \\ -2r - 3t \\ 3s - 7r + 1 \end{vmatrix}$$

$$7) \begin{vmatrix} 3z - 4 - y \\ -8 + 3z \\ 4 - 4z \\ 3y + 7z \end{vmatrix}$$

$$8) \begin{vmatrix} -2n + 5 & 2n + m - 4 \\ -4n + 2m & -6m \end{vmatrix}$$

$$9) \begin{vmatrix} 1 & 11 \\ -10 & -7 \end{vmatrix}$$

$$10) \begin{vmatrix} -5 & 6 & -6 \\ 9 & -1 & 11 \\ -2 & -2 & -14 \end{vmatrix}$$