

Math Worksheets

Matrix Equations

 Solve each equation.

$$1) \begin{vmatrix} -1 & 3 \\ 2 & 0 \end{vmatrix} z = \begin{vmatrix} 10 \\ 4 \end{vmatrix}$$

$$2) 4x = \begin{vmatrix} 16 & -4 \\ 8 & -20 \end{vmatrix}$$

$$3) \begin{vmatrix} -3 & 7 \\ -8 & 6 \end{vmatrix} = \begin{vmatrix} 2 & 8 \\ 1 & 3 \end{vmatrix} - x$$

$$4) Y - \begin{vmatrix} -2 \\ -6 \\ 10 \\ 7 \end{vmatrix} = \begin{vmatrix} -2 \\ 14 \\ -12 \\ -4 \end{vmatrix}$$

$$5) \begin{vmatrix} -3 & -4 \\ 2 & -5 \end{vmatrix} C = \begin{vmatrix} -10 \\ -24 \end{vmatrix}$$

$$6) \begin{vmatrix} -2 & -3 \\ 5 & 4 \end{vmatrix} B = \begin{vmatrix} -4 & 1 & -2 \\ 3 & 8 & -2 \end{vmatrix}$$

$$7) \begin{vmatrix} -4 & 6 \\ 2 & -3 \end{vmatrix} C = \begin{vmatrix} 28 \\ -14 \end{vmatrix}$$

$$10) \begin{vmatrix} -10 \\ 5 \\ -25 \end{vmatrix} = 5B$$

$$8) \begin{vmatrix} 3 & 4 \\ 5 & 2 \end{vmatrix} C = \begin{vmatrix} 6 \\ -4 \end{vmatrix}$$

$$11) \begin{vmatrix} -9 \\ 6 \\ 8 \end{vmatrix} = y - \begin{vmatrix} 11 \\ -3 \\ -7 \end{vmatrix}$$

$$9) \begin{vmatrix} 4 & -3 \\ 0 & 5 \end{vmatrix} Z = \begin{vmatrix} 32 \\ -20 \end{vmatrix}$$

$$12) -6b - \begin{vmatrix} 12 \\ 6 \\ -12 \end{vmatrix} = \begin{vmatrix} -18 \\ -24 \\ -36 \end{vmatrix}$$

Answers of Worksheets

Matrix Equations

$$1) \begin{vmatrix} 2 \\ 4 \end{vmatrix}$$

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

$$3) \begin{vmatrix} 5 & 1 \\ -7 & -3 \end{vmatrix}$$

$$4) \begin{vmatrix} -4 \\ 8 \\ -2 \\ 3 \end{vmatrix}$$

$$5) \begin{vmatrix} -2 \\ 4 \end{vmatrix}$$

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

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

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

$$9) \begin{vmatrix} 5 \\ -4 \end{vmatrix}$$

$$10) \begin{vmatrix} -2 \\ 1 \\ -5 \end{vmatrix}$$

$$11) \begin{vmatrix} 2 \\ 3 \\ 1 \end{vmatrix}$$

$$12) \begin{vmatrix} 1 \\ 3 \\ 8 \end{vmatrix}$$