Write the matrix equation as a system of equations and solve the system.

=

Find the determinant of the given matrix.

3 4 -3 3

Find the determinant of the given matrix.

Determine whether the matrix is invertible by finding the determinant of the matrix.

Find the inverse of the matrix.

A = 3 0

-1 -4

Perform the indicated operation, if possible.

-

Decide whether or not matrix B is the inverse of matrix A.

A =

B=

The size of two matrices is given. Find the size of the product AB and the product BA, if the products exist.

A is 4 × 1, B is 1 × 4.

Given matrices A and B, find the indicated matrix if possible.

A = B = Find AB.

Write the augmented matrix for the system.

9x + 2y + 9z = 8

8x + 5y + 2z = 26

9x + 2y + 3z = 14

Find the sum, if possible.

+

Find the minor for the element in the first row and second column of the given matrix.

11 -11 20

-3 19 16

4 6 -8