MATLAB - INVERSE OF A MATRIX

http://www.tutorialspoint.com/matlab/matlab matrix inverse.htm

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The inverse of a matrix A is denoted by A^{-1} such that the following relationship holds –

$$AA^{-1} = A^{-1}A = 1$$

The inverse of a matrix does not always exist. If the determinant of the matrix is zero, then the inverse does not exist and the matrix is singular.

Inverse of a matrix in MATLAB is calculated using the **inv** function. Inverse of a matrix A is given by invA.

Example

Create a script file and type the following code -

```
a = [ 1 2 3; 2 3 4; 1 2 5]
inv(a)
```

When you run the file, it displays the following result –

```
a =
      1
            2
                   3
      2
                   4
            3
      1
            2
ans =
                2.0000
                           0.5000
    -3.5000
                          -1.0000
    3.0000
              -1.0000
    _0 5000
                           Θ
Loading [MathJax]/jax/output/HTML-CSS/fonts/TeX/fontdata.js
```