3x + 2y − z = 10

−x + 3y + 2z = 5

x − y − z = −1.

The solution to this set of equations is the point (−2, 5, −6).

A

|  |  |  |
| --- | --- | --- |
| 3 | 2 | -1 |
| -1 | 3 | 2 |
| 1 | -1 | -1 |

B

|  |
| --- |
| 10 |
| 5 |
| 1 |

X

|  |
| --- |
| x |
| y |
| z |

1. Find invers of Matrix A

To calculate the inverse of a matrix, we have to follow these steps:

* First, we need to find the matrix of minors
* Now change that matrix into a matrix of cofactors
* Now find the adjoint of the matrix
* At the end, multiply by 1/determinant