Divided second row on -9

Multiply second row by -6 and add to fist row. Multiply second row by 23 and add

to third row

Divided third row on

Multiply third row by -1 and add to fist row. Multiply third row by -1/3 and add to

second row =[:]

=

Determinates

If A =, then = -

Example A = ,then = 10-(-12) = 22

If A = ,then = - +

Example A =

= -+=-69

There are simple method for finding determinates of matrix = + + - (+ +)

Example A =

= 3(2(4) + 5(3)(-1) + 2(4)(2) - ((-1)(2)(2)+2(3)(3)+4(4)(5)) = -69

Properties of determinates

1) =

2) =

Example A =

= = 6

Example A = , B =

= -2 , = 5

AB =

= -10 =

There is a rule to finding the inverse of matrix

A =

=

Example A =

= 1, =