Gauss’s method

Linear system

(1/4)x + y – z = 0

X+ 4y -2z = 12

2x- 3y = 3

We transform the one whose solution is easy, start by clearing the fraction

X + 4y -4z = 0

X + 4y + 2z = 12

2x – 3y – z = 3

Next use the first row to act on the rows below, eliminate the x terms.

-p1 + p2

­\_\_\_\_\_\_\_

-2p + p3

X + 4y – 4z = 0

+ 6z = 12

-11 + 7z = 3