ORUMWENSE OSASUYI ERNEST

16/ENG06/061

MECHANICAL ENG

ENG281

Clear: To clear variables in work space

Clc: To clear variables in command window

commandwindow

clear

clc

A = [ 2 3 7 9 4;3 7 9 12 5;4 8 5 6 9;5 9 2 4 5;6 2 3 7 8 ]

Sola= det(A)

Yemi = transpose(A)

Kola = inv(A)

A = 2 3 7 9 4

 3 7 9 12 5

 4 8 5 6 9

 5 9 2 4 5

 6 2 3 7 8

Sola= -765.0000

 Yemi= 2 3 4 5 6

 3 7 8 9 2

 7 9 5 2 3

 9 12 6 4 7

 4 5 9 5 8

 Kola = 1.8915 -1.4026 -0.3124 0.7843 -0.2078

 -0.4379 0.3268 0.0523 -0.0392 -0.0196

 2.5725 -1.8392 -0.0863 0.7647 -0.5176

 -1.8876 1.4654 0.0105 -0.6078 0.3961

 -0.6222 0.3778 0.2444 -0.3333 0.1333

 [ 1447/765, -1073/765, -239/765, 40/51, -53/255]

[ -67/153, 50/153, 8/153, -2/51, -1/51]

[ 656/255, -469/255, -22/255, 13/17, -44/85]

[ -1444/765, 1121/765, 8/765, -31/51, 101/255]

[ -28/45, 17/45, 11/45, -1/3, 2/15]

 commandwindow

 clear

 clc

 A = [ 0 10 4 -2;-3 -17 1 2;1 1 1 0;8 -34 16 -10 ]

 B = [-4;2;6;4]

 X = inv (A)\*B

 A = 0 10 4 -2

 -3 -17 1 2

 1 1 1 0

 8 -34 16 -10

B = -4

 2

 6

 4

X = 4.0000

 -0.0000

 2.0000

 6.0000