MESH ANALYSIS

NODAL ANALYSIS

> R=[40 -10 -30 ; 10 -30 5 ; 30 5 -65]

R =

  40 -10 -30

  10 -30   5

  30   5 -65

> V=[10 0 0]

V =

  10   0   0

> V'

ans =

  10

   0

   0

> I=R\(V')

I =

  0.47531

  0.19753

  0.23457

> Y=[0.15 -0.1 -0.05 ; -0.10 0.145 -0.025 ; -0.05 -0.025 0.075]

Y =

  0.150000 -0.100000 -0.050000

  -0.100000   0.145000 -0.025000

  -0.050000 -0.025000   0.075000

> I=[5;0;2]

I =

  5

  0

  2

> v=Y\I

v =

  404.29

  350.00

  412.86