

To solve the complex matrix equation  $[Z][I] = [V]$  for  $[I]$

Decomposed complex matrix  $[Z] = [R] + j[X]$

[R]		
-5.000	0.000	5.000
0.000	-5.000	0.000
5.000	0.000	-15.000

Det[R] = -250

[X]		
0.00	0.00	5.00
0.00	-5.00	-10.00
5.00	-10.00	-5.00

Det[X] = 125

[I]	
4.00E+00	0.00E+00
2.00E+00	-2.00E+00
0.00E+00	0.00E+00

Solution

In polar form	
4.00E+00	∠ 0.00
2.83E+00	∠ -45.00
0.00E+00	∠ #DIV/0!

[V]	
-20.000	0.000
-20.000	0.000
0.000	0.000