```
z=0.12+j*0.6;
y=j*4*10^-6;
Z_0=sqrt(z/y);
gama=sqrt(z*y);
len= 300;
f=50;
%%%%% MEDIUM LINE %%%%%
A = 1 + z * y / 2
D= A
B=z
C = y*(1+z*y/4)
akim= (80*10^6-j*60*10^6)/(400*10^3*sqrt(3))
volt=400*10^3/sqrt(3)
receiving=[volt ; akim]
ABCD=[A B ; C D]
sending = ABCD * receiving
abs(sending)
abs(sending)*sqrt(3)
%%%%%% LONG LINE %%%%%%
A= cosh(gama*len);
B= Z_0*sinh(gama*len);
C= sinh(gama*len)/Z_0;
D= cosh(gama*len);
akim= (80*10^6-j*60*10^6)/(400*10^3*sqrt(3));
volt=400*10^3/sqrt(3);
receiving=[volt ; akim];
ABCD=[A B ; C D];
sending = ABCD * receiving;
abs(sending)
abs(sending)*sqrt(3)
A =
   1.0000 + 0.0000i
D =
   1.0000 + 0.0000i
B =
```

```
0.1200 + 0.6000i
C =
 -4.8000e-13 + 4.0000e-06i
akim =
  1.1547e+02 - 8.6603e+01i
volt =
  2.3094e+05
receiving =
  1.0e+05 *
  2.3094 + 0.0000i
  0.0012 - 0.0009i
ABCD =
  1.0000 + 0.0000i 0.1200 + 0.6000i
  -0.0000 + 0.0000i 1.0000 + 0.0000i
sending =
  1.0e+05 *
  2.3101 + 0.0006i
  0.0012 - 0.0009i
ans =
  1.0e+05 *
   2.3101
   0.0014
ans =
  1.0e+05 *
   4.0011
    0.0025
```

ans =

1.0e+05 *

2.2641

0.0022

ans =

1.0e+05 *

3.9216

0.0038

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