Code:

clc

close all

n1 = input('enter area to be covered: ');

n2 = input('enter area of each cell: ');

n3 = input('no of duplex channels available: ');

size = input('enter cluster size: ');

area1 = n2\*size

m1 = n1/area1

k1 = n3/size

c1 = m1\*k1

q = ((3\*n2)^0.5)

r = (((n2\*2)/(3\*1.732))^0.5)

D = q\*r

Output:

enter area to be covered: 4200

enter area of each cell: 12

no of duplex channels available: 7

enter cluster size: 1001

area1 =

12012

m1 =

0.3497

k1 =

0.0070

c1 =

0.0024

q =

6

r =

2.1492

D =

12.8950