Experiment 7

>> **MATLAB Code**

```
%Circle: r = a and Cardiod r = a(1-cos(t))
%Assume a = 4
syms t;
f = 4*(1-cos(t));
ezpolar('4*(1-cos(t))');
hold on;
g = 4;
ezpolar('4');
hold off;

syms ar;
area = abs(int(f,t,-pi/2,pi/2)-int(g,t,-pi/2,pi/2))
```

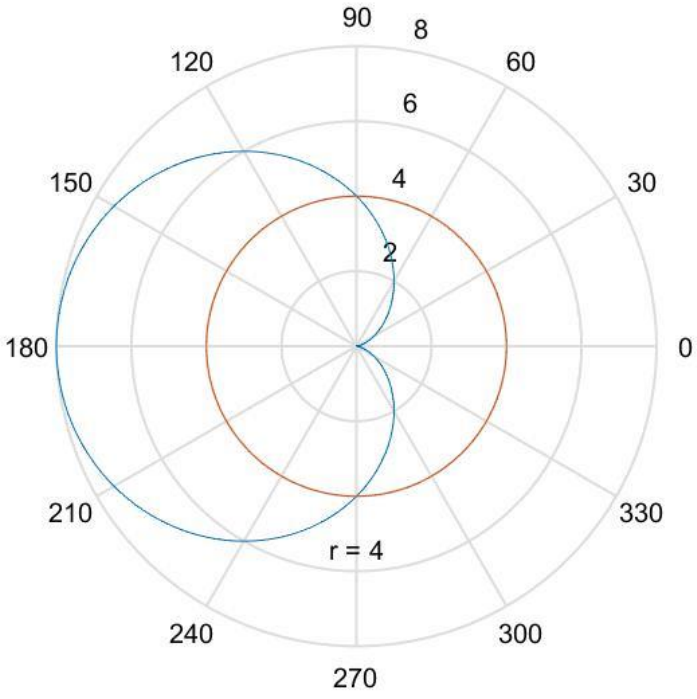
>> **Command Window**

```
Experiment_7

area =

     8
```

>> **Graph**



r = 4 (1-cos(t))