```
%direct method-circle

clc;clear all;close all
xc=input('enter x-value :  ');
yc=input('enter y-value :  ');
r=input('enter radius -value :  ');
x=xc-r;
axis ([0 100 0 100])
hold on

for i=0:2*r
    y=yc+sqrt(power(r,2)-power((x-xc),2));
    plot(x, round(y),'rx')
    y=yc-sqrt(power(r,2)-power((x-xc),2));
    plot(x, round(y),'rx')
    x=x+1;
end
```