**姓名：**邹宇江 **班级：**2019211309 **学号：**2019211416

**第一题：**

>> A=rand(5,6)

A =

0.0975 0.1576 0.1419 0.6557 0.7577 0.7060

0.2785 0.9706 0.4218 0.0357 0.7431 0.0318

0.5469 0.9572 0.9157 0.8491 0.3922 0.2769

0.9575 0.4854 0.7922 0.9340 0.6555 0.0462

0.9649 0.8003 0.9595 0.6787 0.1712 0.0971

**第二题：**

>> B=rand(5,6);

>> A'\*B

ans =

0.7132 1.7280 1.2727 1.9971 1.5631 1.9600

1.0935 2.0206 1.1641 2.4229 2.1405 1.6980

0.8592 2.0567 1.3047 2.2518 1.8963 2.0330

1.0805 2.1100 1.3463 1.8932 1.5952 1.8641

1.3299 1.4641 0.9946 1.6308 1.4215 0.9764

0.7650 0.9287 0.3973 0.5513 0.5074 0.3290

**第三题：**

>> X=linspace(0,1,100);

>> Y=linspace(1,1,100);

>> plot(X,Y); %画y=1

>> hold on

>> plot(Y,X); %画x=1

>> ezplot('(1-t\*t)^0.5',[0,1]) %画圆（t不用定义）

>> total=1000;

>> count=0;

>> for n=1:total

x=rand(1);

y=rand(1);

if x^2+y^2<1

count=count+1;

scatter(x,y);

end

end

>> PI=4\*count/total

PI =

3.1560

**第三题的图：**

