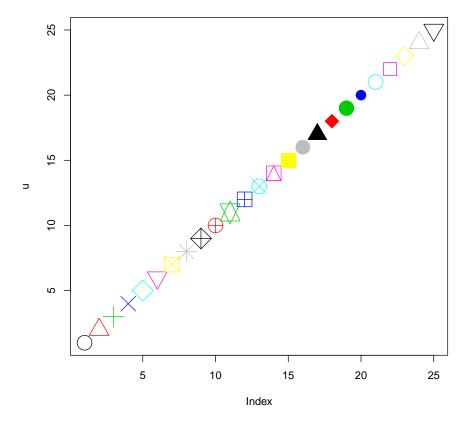
R作业3程序及结果(仅供参考)

March 25, 2016

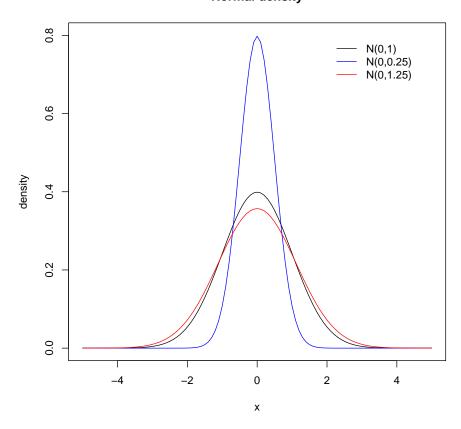
1.R中的颜色及点的类型

```
u=1:25
plot(u,pch=u,col=u,cex=3)
```



2.正态态分布的密度随方差的变化

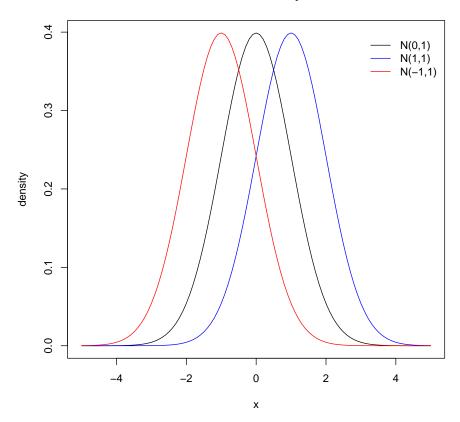
Normal density



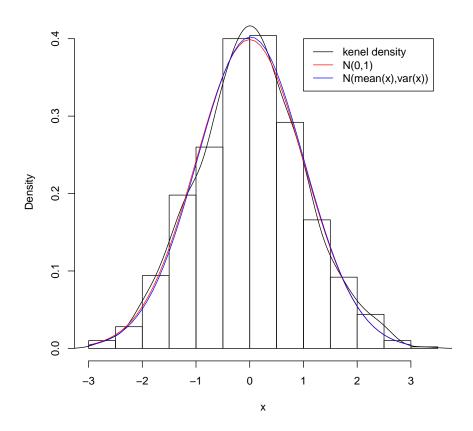
3.正态分布的密度随均值的变化

```
ncol=1,bty="n")
title("Normal density")
```

Normal density

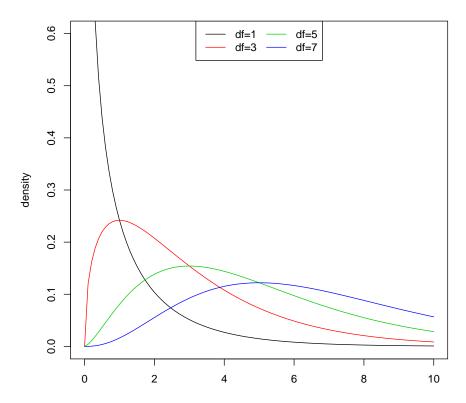


4.直方图与核密度估计



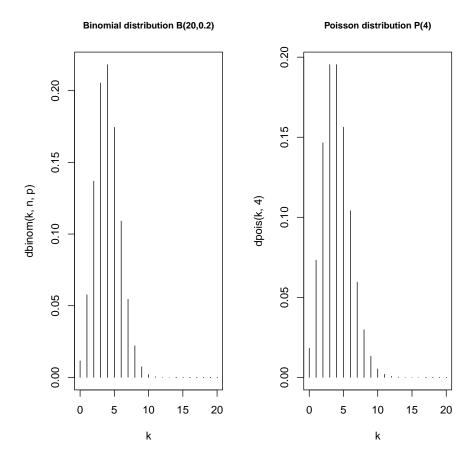
5.卡方分布

Chis square distributions



6.二项分布与泊松分布

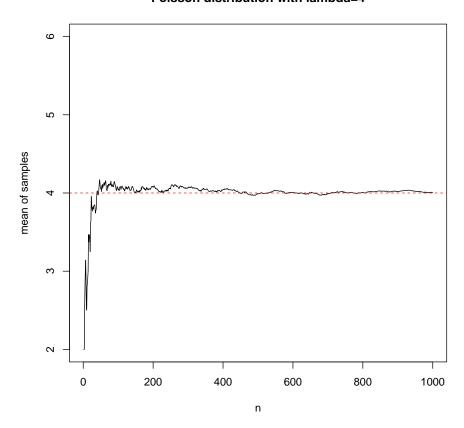
```
\label{eq:parameters} $$ par(mfrow=c(1,2)) $$ n=20;p=0.2 $$ k=0:n $$ plot(k,dbinom(k,n,p),type="h",main="Binomial distribution B(20,0.2)",cex.main=0.8) $$ plot(k,dpois(k,4),type="h",main="Poisson distribution P(4)",cex.main=0.8) $$
```



```
dev.off()
null device
    1
```

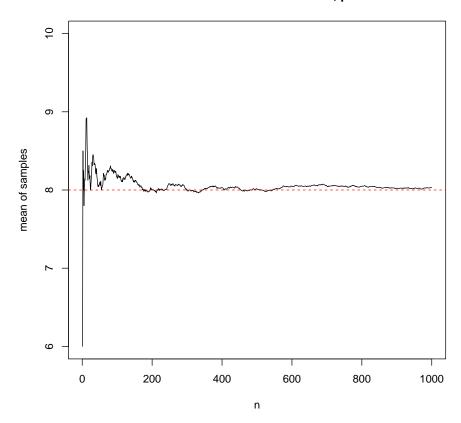
7.大数定律 (1)泊松分布

Poisson distribution with lambda=4



(2)二项分布

Binomial distribution with m=20, p=0.4



(3)均匀分布

Uniform distribution with a=2, b=4

