



```
R Console

> SD <- 1
> N <- 10000
> n <- 30
> pop <- rnorm(N, mean=MU, sd=SD)
>
> samp.means <- rnorm(N, mean=MU, sd=SD/sqrt(n))
> max.samp.means <- max(density(samp.means)$y)
>
> plot(density(pop), ylim=c(0,max.samp.means),
+ ma
```

```
Untitled - R Editor

MU <- 10
SD <- 1
N <- 10000
n <- 30
pop <- rnorm(N, mean=MU, sd=SD)

samp.means <- rnorm(N, mean=MU, sd=SD/sqrt(n))
max.samp.means <- max(density(samp.means)$y)

plot(density(pop), ylim=c(0,max.samp.means),
     main=paste("Population vs Sample Mean, n =", n),
     xlab="X",
     ylab="")
lines(density(samp.means))
```

