

# Theory Homework 6

*Tim Vigers*

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```
ylim=c(0,1.5)
plot(seq(-3,3,.1),dnorm(seq(-3,3,.1)),type="l",ylim=ylim,col = 1,xlab = "x",ylab = "f(x)")
lines(seq(-3,3,.1),dnorm(seq(-3,3,.1),mean=-2,sd=sqrt(.1)),type="l",col=2)
lines(seq(-3,3,.1),dnorm(seq(-3,3,.1),mean=2,sd=sqrt(.1)),type="l",col=3)
lines(seq(-3,3,.1),dnorm(seq(-3,3,.1),mean=0,sd=sqrt(0.5)),type="l",col=4)
legend(0, 1.5, legend=c("N(0,1)", "N(-2,1)", "N(2,1)", "N(0,0.5)"),col=c(1:4), lty=1)
```

