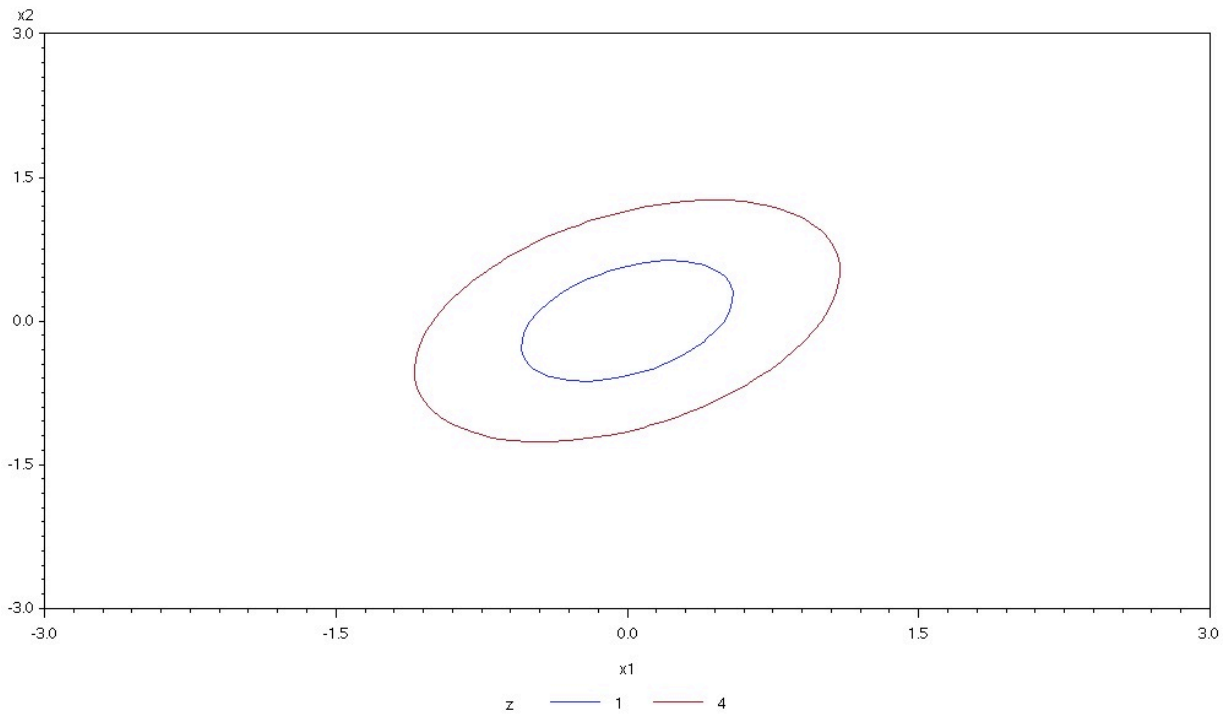


HW 2.18 and 2.38

Jeremy Harper
01.25.11



```
data ellipse;  
a11=4;  
a22=3;  
a12=2.82842712474619;  
keep x1 x2 z;  
do x1=-1.5 to 1.5 by 0.1;  
do x2=-1.5 to 1.5 by 0.1;  
z=a11*(x1**2)+a22*(x2**2)-a12*x1*x2;  
if z > .001 then output;  
end;  
end;  
proc gcontour data=ellipse;  
plot x2*x1=z/levels=1 4;  
run;
```