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COGS 104

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Assignment #5: Plot the Lorenz Attractor

clear

sigma=10;

beta=8/3;

p=28;

x=rand\*20-10;

y=rand\*20-10;

z=rand\*20-10;

for t=1:5000

equX=(sigma\*(y-x))\*.01;

equY=(x\*(p-z)-y)\*.01;

equZ=(x\*y-(beta\*z))\*.01;

x=x+equX;

y=y+equY;

z=z+equZ;

allx(t)=x;

ally(t)=y;

allz(t)=z;

end

plot3(allx,ally,allz)

