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% CU_BEARS- A script file which plots "CU!" using lines and circles.
% -----
% CIRCULAR PORTIONS OF "CU"
theta1= linspace(0,pi,100);
theta2= linspace(pi, 2*pi);
x1= 2*cos(theta1)-5;
y1= 2*sin(theta1)+2;
x2= 4*cos(theta1)-5;
y2= 4*sin(theta1)+2;
x3= 2*cos(theta2)-5;
y3= 2*sin(theta2)-2;
x4= 4*cos(theta2)-5;
y4= 4*sin(theta2)-2;
x5= 2*cos(theta2)+5;
y5= 2*sin(theta2)-2;
x6= 4*cos(theta2)+5;
y6= 4*sin(theta2)-2;
% VERTICAL LINES IN "CU"
xh1= [-9 -9]; yh1= [-2 2];
xh2= [-7 -7]; yh2= [-2 2];
xh3= [1 1]; yh3= [-2 6];
xh4= [3 3]; yh4= [-2 6];
xh5= [7 7]; yh5= [-2 6];
xh6= [9 9]; yh6= [-2 6];
% VERTICAL LINES IN "!"
xh7= [11 11]; yh7= [-2 6];
xh8= [13 13]; yh8= [-2 6];
xh9= [11 11]; yh9= [-4 -6];
xh10= [13 13]; yh10= [-4 -6];
% HORIZONTAL LINES IN "CU"
xh11= [-3 -1]; yh11= [2 2 ];
xh12= [-3 -1]; yh12= [-2 -2];
xh13= [1 3]; yh13= [6 6];
xh14= [7 9]; yh14= [6 6];
% HORIZONTAL LINES IN "!"
xh15= [11 13]; yh15= [6 6];
xh16= [11 13]; yh16= [-2 -2];
xh17= [11 13]; yh17= [-4 -4];
xh18= [11 13]; yh18= [-6 -6];
% THICK RED UNDERLINE
xh19= [-10 14]; yh19= [-8 -8];

plot(x1,y1,'r',x2,y2,'r',x3,y3,'r',x4,y4,'r',x5,y5,'r',x6,y6,'r');
hold on;
plot(xh1,yh1,'r',xh2,yh2,'r',xh3,yh3,'r',xh4,yh4,'r');
plot(xh5,yh5,'r',xh6,yh6,'r');
plot(xh7,yh7,'r',xh8,yh8,'r',xh9,yh9,'r',xh10,yh10,'r');
plot(xh11,yh11,'r',xh12,yh12,'r',xh13,yh13,'r',xh14,yh14,'r');
plot(xh15,yh15,'r',xh16,yh16,'r',xh17,yh17,'r',xh18,yh18,'r');
plot(xh19, yh19,'r','LineWidth',25);
xlabel('x');
ylabel('y');
axis('equal');
title('CORNELL UNIVERSITY');

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