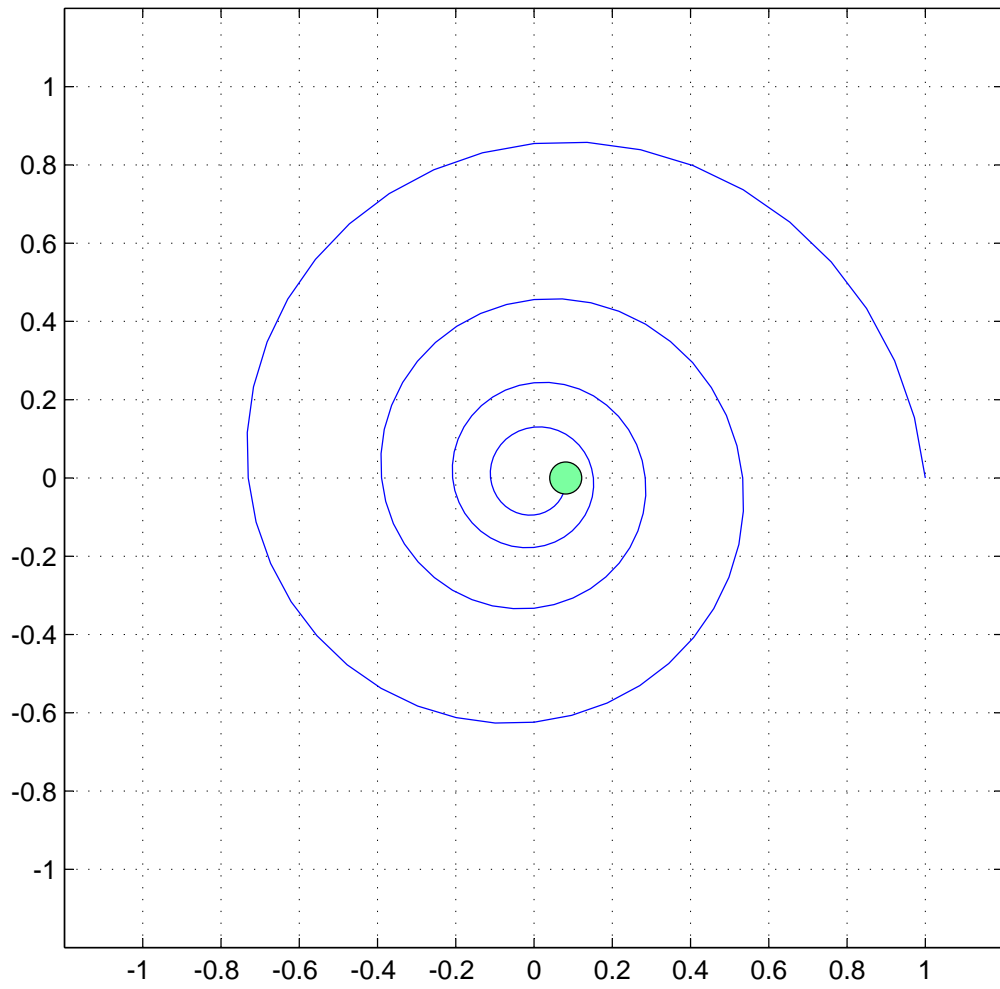


```

1 close all;
2 clear all;
3
4 figure(1);
5 set(gcf, 'Position', [1 440 1024 672]);
6 t = 0:pi/20:8*pi;
7 numframes = length(t);
8
9 winsize = get(gcf, 'Position');
10 A=moviein(numframes,gcf,winsize);
11 set(gcf, 'NextPlot', 'replacechildren')
12 x = cos(t).*exp(-0.1*t);
13 y = sin(t).*exp(-0.1*t);
14 for i=1:numframes
15     plot(x(1:i),y(1:i), '-', x(i),y(i), 'ro', 'MarkerEdgeColor', 'k', ...
16         'MarkerFaceColor', [.49 1 .63], ...
17         'MarkerSize', 12);
18     title('Schnecke, (cos(t), sin(t))*exp(-t/10)');
19     grid
20     set(gca, 'DataAspectRatio', [1 1 1])
21     axis([-1.2 1.2 -1.2 1.2]);
22     A(:,i)=getframe;
23 end
24
25
26
27 figure(2);
28 set(gcf, 'Position', [1 440 1024 672]);
29 t = 0:pi/20:6*pi;
30 numframes = length(t);
31 x = cos(t);
32 y = sin(t);
33 z = t;
34 for i=1:numframes
35     plot3(x(1:i),y(1:i),z(1:i), '-', x(i),y(i),z(i), 'ro', ...
36         'MarkerEdgeColor', 'k', ...
37         'MarkerFaceColor', [.49 1 .63], ...
38         'MarkerSize', 12);
39     title('Zylindrische Spirale, (cos(t), sin(t), t)');
40     grid
41     axis([-1.2 1.2 -1.2 1.2 0 25]);
42     A(:,i)=getframe;
43 end
44
45

```

Schnecke, $(\cos(t), \sin(t)) \cdot \exp(-t/10)$



Zylindrische Spirale, $(\cos(t), \sin(t), t)$

