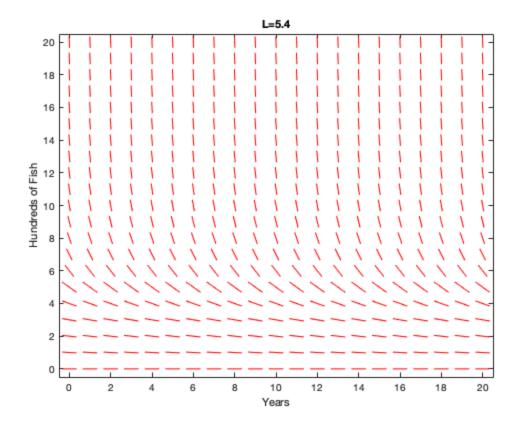
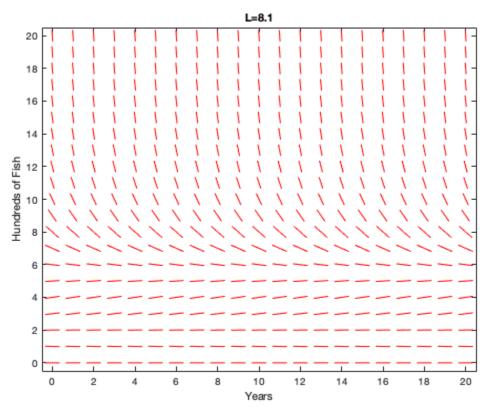
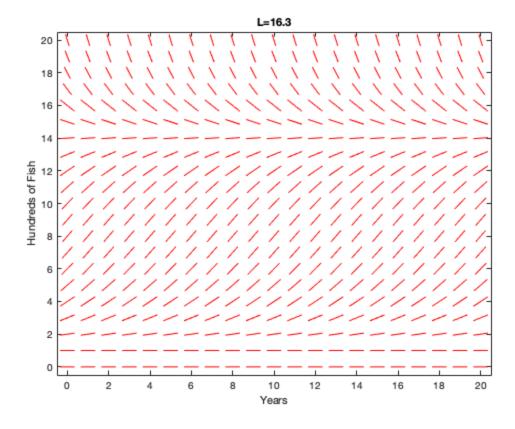
5C

```
clear all; % clears all previous activity
close all;
% sets global variables
p=1.2
q=1;
r=.65;
L=5.4;
func1 = @(t,y) (.65*(1-(y/5.4)).*y)-((1.2*(y.^2))./(1+(y.^2))); %
 defines f(y) as an anonymous function with L=5.4
func2 = @(t,y) (.65*(1-(y/8.1)).*y)-((1.2*(y.^2))./(1+(y.^2))); %
 defines f(y) as an anonymous function with L=8.1
func3 = @(t,y) (.65*(1-(y/16.3)).*y)-((1.2*(y.^2))./(1+(y.^2))); %
 defines f(y) as an anonymous function with L=16.3
   figure(1); % sets figure 1
   dirfield(func1, 0:1:20, 0:1:20, "L=5.4") % graphs direction field
 when L=5.4
     % sets axes labels
   xlabel('Years');
   ylabel('Hundreds of Fish');
   figure(2); % sets figure 2
   dirfield(func2, 0:1:20, 0:1:20, "L=8.1") % graphs direction field
 when L=8.1
     % sets axes labels
   xlabel('Years');
   ylabel('Hundreds of Fish');
   figure(3); % sets figure 3
   dirfield(func3, 0:1:20, 0:1:20, "L=16.3") % graphs direction field
 when L=16.3
     % sets axes labels
   xlabel('Years');
   ylabel('Hundreds of Fish');
p =
    1.2000
```







Published with MATLAB® R2020a