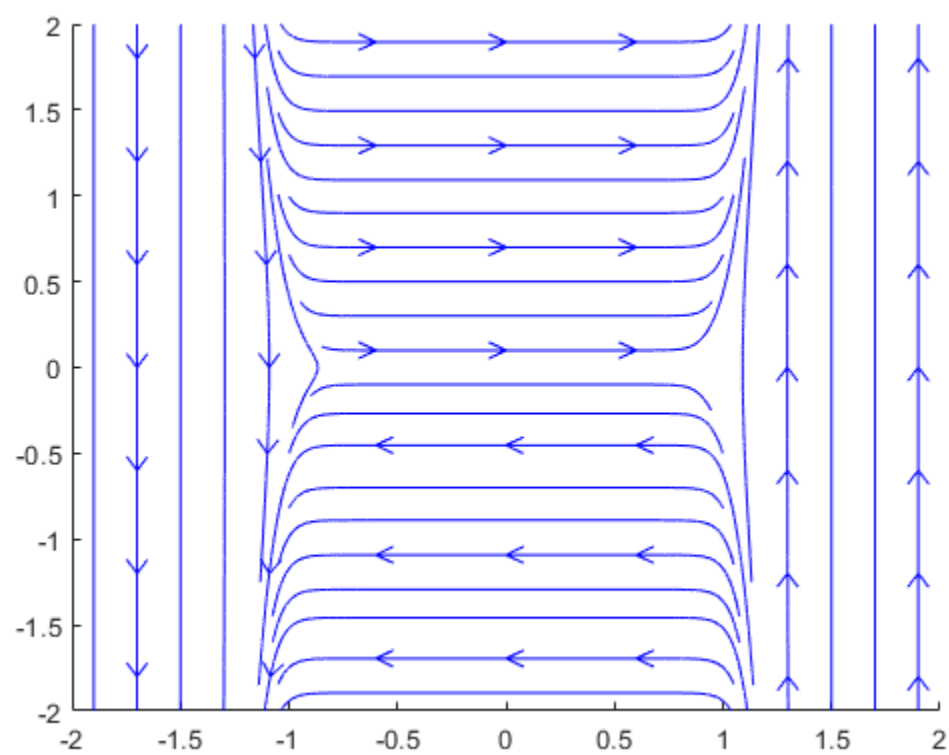
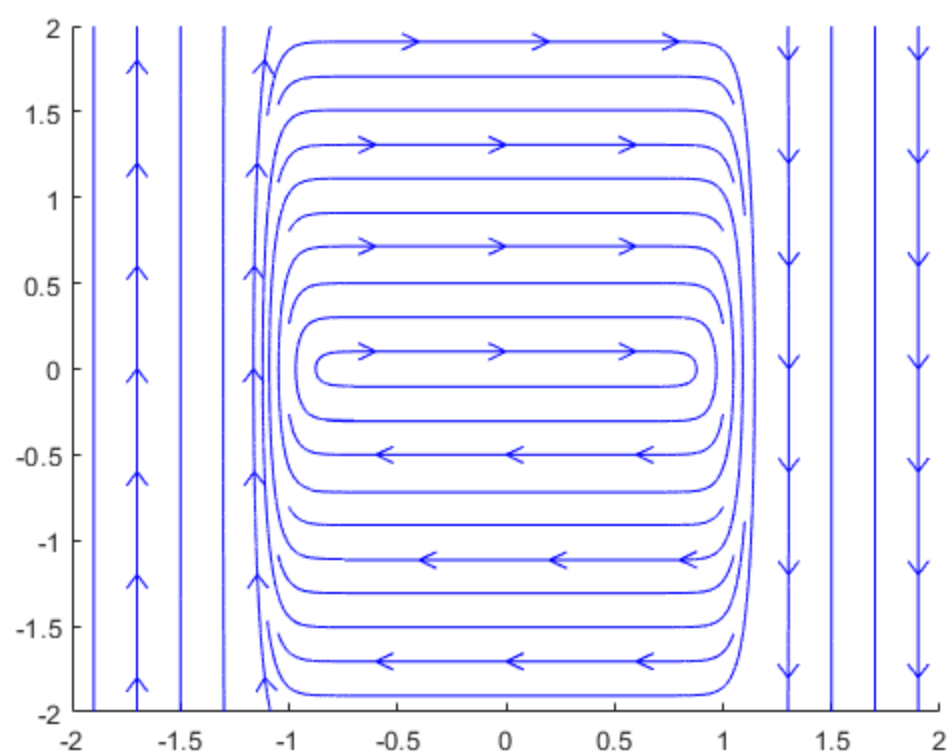

```
m = 2;
k = 20;

% x''+2*x^21 = 0 -#####
% #####
% ##### x', #####:
%      x'*x'' +- x'*2x^21 = 0;
% #####:
%      x'^2/2 +- \int{2x^21} = x'^2/2 + 2x^22/22 = 11*x'^2 + 2*x^22 =
const
%      ==> #####
%      ##### 22:
%      11x'^2 +- 2*x^22 = const - #####
%
% ##### # #####
% x''+2*x^21 = 0
dx = y;
dy = -2*x.^21;
% #####
[x, y] = meshgrid(linspace(-2, 2, 501));
% #####:
figure(1)
streamslice(x,y,dx,dy);
hold on;

%
% x''-2*x^21 = 0;
dx = y;
dy = 2*x.^21;
figure(2)
streamslice(x,y,dx,dy);
hold on;
```



Published with MATLAB® R2021a