

Dartmouth College
Mathematics 23 - Assignment 18

1. Find the general solution of

$$\mathbf{x}' = \begin{bmatrix} 2 & 2 \\ 3 & 1 \end{bmatrix} \mathbf{x}$$

Also draw a direction field and plot a few trajectories of the system.

2. Boyce and DiPrima Section 7.5: 12
3. Boyce and DiPrima Section 7.5: 16
4. Boyce and DiPrima Section 7.5: 25
5. Boyce and DiPrima Section 7.5: 29