Problem Set 5 Differential Equations Due 4/5/04 by 11am

You are encouraged to work in groups of two to four on this assignment and make a single group submission. Each problem is worth 5 points. For full credit indicate clearly how you reached your answer. All work must be legible and submitted on clean paper without ragged edges.

1. Do §3.3 #24.

2. Do §3.3 #26.

3. Find a solution to the system of differential equations $\begin{aligned} \frac{dx}{dt} &= 2x - 1y \\ \frac{dy}{dt} &= 4x + 6y \end{aligned}$ through the point (1,0).

4. Find a solution to the system of differential equations $\begin{aligned} \frac{dx}{dt} &= 2x + 3y \\ \frac{dy}{dt} &= 4x + 6y \end{aligned}$ through the point (1,0).

5. Find a solution to the system of differential equations $\begin{aligned} \frac{dx}{dt} &= 2x - 2y \\ \frac{dy}{dt} &= 4x + 6y \end{aligned}$ through the point (1,0).

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