Math 321 Differential Equations  
C26 Linear Systems Part 2

For the example ODE and ICS to which your group is assigned,

1. On a phase plane, draw the nullclines and mark the direction of solution movement in each of the delineated regions. Imagine some solution curves.
2. Find the general analytic solution.
3. Find the specific analytic solution for the given initial conditions.
4. On the phase plane, draw the straight-line solutions and a few other solution curves (including the one for the given initial conditions).

Share your results with another group and listen to their solution.

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| --- | --- | --- | --- |
|  | Example 2 | Example 3 | Example 4 |
| ODE |  |  |  |
| ICS |  |  |  |

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