Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. The matrix exponential is …
2. The Cauchy problem is defined as …
3. What is the difference between the Explicit and Implicit Euler Method, EM?
4. What can you say about the numerical stability of Explicit/Implicit EM?
5. Name possible improvements for the Euler Method.
6. List some of the numerical methods to solve ODE that you know.