HW 7

- 1. Consider x' = Ax where A is an invertible real $n \times n$ matrix all of whose eigenvalues have real parts ≤ 0 with at least one having real part = 0. Prove that it is not asymptotically stable but it is Liapunov stable.
- 2. Find the equilibria and solve -x'' + xx' = 0 explicitly.