

Differential Equations Seminar: Week 11 Solutions

1. Use $V(x, y) = 3x^2 + 5y^2$ to find the origin is asymptotically stable.
2. Use $V(x, y) = 2x^2 + y^4$ to find the origin is asymptotically stable.
3. Use $V(x, y) = 2x^2 + y^2$ to find the origin is asymptotically stable.
4. Use $V(x, y) = 4x^2 + y^2$ to find the origin is stable.