Math 558   Applied Dynamical Systems   Winter 2023

hw6 , due: Thursday, April 20, 4pm

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1. Q6.4 a model for an epidemic

2. Q6.12 a sphere of combustible material in equilibrium

3. Q6.21 Lyapunov's direct method for a damped spring

4. Q6.28 a nonlinear oscillation

5. Q6.32 Lyapunov's direct method and the Poincaré-Bendixson theorem

Announcement

The final exam is on Thursday, April 27 at 1:30-3:30pm in 4088 East Hall. It will cover everything up to and including the last class on Monday April 17. You may use two pages $(2 \times 8.5 \times 11 \text{ in}^2)$ of handwritten or typed notes, but do not photocopy the lecture notes.