

Problem 10.25:

25. The following model describes a mass supported by a nonlinear, hardening spring. The units are SI. Use $g = 9.81 \text{ m/s}^2$.

$$5\ddot{y} = 5g - (900y + 1700y^3) \quad y(0) = 0.5 \quad \dot{y}(0) = 0$$

Create a Simulink model to plot the solution for $0 \leq t \leq 2$.



