

## Solution 1a

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- Next page has hand written solution for finding expressions of frequency and damping ratio.
- Inside the main folder, open “**prob\_1a**” **folder** for Simulink model and Matlab script.
  - First run “params.m” script alone and then run the Simulink model.
- By substituting the given parameters I have obtained the following values:
  - **Kp = 18000**
  - **Kd = 8400**