

**Gradescope Assignment: Due 3/22/21**

**0 pts for no work**

**2 pts for attempt**

**4 pts for full answer**

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1. 4.1.20. Note, if you haven't thought about Newton's Third Law in a second, you may want to refresh yourself. Also, I would label the equilibrium position as  $x_{eq} = 0$ , which should make everything a bit easier.
2. 4.2.37. You're going to need to read the "Reduction of Order" explanation on the page in order to do this problem.