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Lecture Sequence due Dec 15, 2022 07:30 +08 Completed

## Exercise 1

5/5 points (graded)

To model data effectively, it is important to understand the underlying model that describes the data. This means that knowing the physical phenomenon or event that is being modeled is extremely important. For each of the following data/phenomena/events, describe what type of model (linear, quadratic, other) you would use to describe the underlying phenomena.

1. Hourly temperature from 7am to 7pm	
quadratic 🗸	
2. Gravitational force on an object as mas	ss increases
linear 🗸	
2 Displacement of a mass on a hanging s	enring from the coiling
3. Displacement of a mass on a hanging s	spring from the ceiling
other	
is also important to understand physical pheological p	enomena and their limitations when modeling data. Which of the
	ations throughout the day may oscillate for a variety of reasons trend is quadratic and using a quadratic model is most
You can eliminate a small number of not better fit.	n-outlier data points in order to construct a model that has a
At some point, some physical phenome springs have an elastic limit).	na have limitations that do not fit their mathematical models (i.e.
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