

PHY 420, Fall 2019

Problem Set #8

Assigned: November 4

Due: November 15

Part I: Watch the “Astounding” video from Numberphile and then answer the following questions.

<https://www.youtube.com/watch?v=w-l6XTVZXww&t=2s>

1. What did you find to be the most interesting part of this discussion?
2. Do you believe the result? Justify your answer.

Part II: Complete the following problems in *Classical Mechanics by Fowles & Cassiday*.
10.1, 10.2, 10.3, 10.4 (introductory problems)
10.6, 10.8, 10.10 (challenge problems)