

MATH 134: Reflection Homework 7

Due: Wednesday, November 2 in class

NOTE: Don't forget to write out and sign the Honor Code at the top of your reflection homework:

"I affirm that I have adhered to the Honor Code in this assignment."

First, you must watch the following video:

https://www.youtube.com/watch?annotation_id=annotation_3401395531&feature=iv&src_vid=E-d9mgo8FGk&v=w-I6XTVZXww

1. In your own words, write out the argument the video presents for why

$$1 + 2 + 3 + 4 + \cdots = -\frac{1}{12}.$$

2. Write a paragraph or two describing your own views on this mathematical argument. Here are some questions to possibly consider: does it make sense intuitively? Do you think there are any errors in this argument? Is there anything you're suspicious about in the argument? Do you believe the argument to be ultimately mathematically sound?

You do not need to give an explanation for why the argument is right/wrong; I am only looking for your own thoughts on the matter at this point in time. We will revisit this video later in the semester after we have talked more about series.