

1106 DIS 208 Week 6 (#2)

2/28/2020

Discussion Outline

- Something random
- Quiz 2
- Worksheets

Benjamin Thompson (he/him)
bgt37@cornell.edu
Office hours: 4:15-6:15 Thu

Upcoming Assessment

- Quiz 2 (Today!)
- Homework 6 (Monday, 2/2)
- Reading quiz 12 (Monday, 2/2)
- Prelim 1 (Tuesday, 3/10) (2 weeks away)

• Can always ask questions on Piazza

Last time: - Practice Quiz 2

This time: - something random

- Quiz 2

- Approximating derivative
worksheets

What's the largest
natural hexagon?

Honeycomb?



"Bienenwabe mit
Eiern und Brut 5.jpg"

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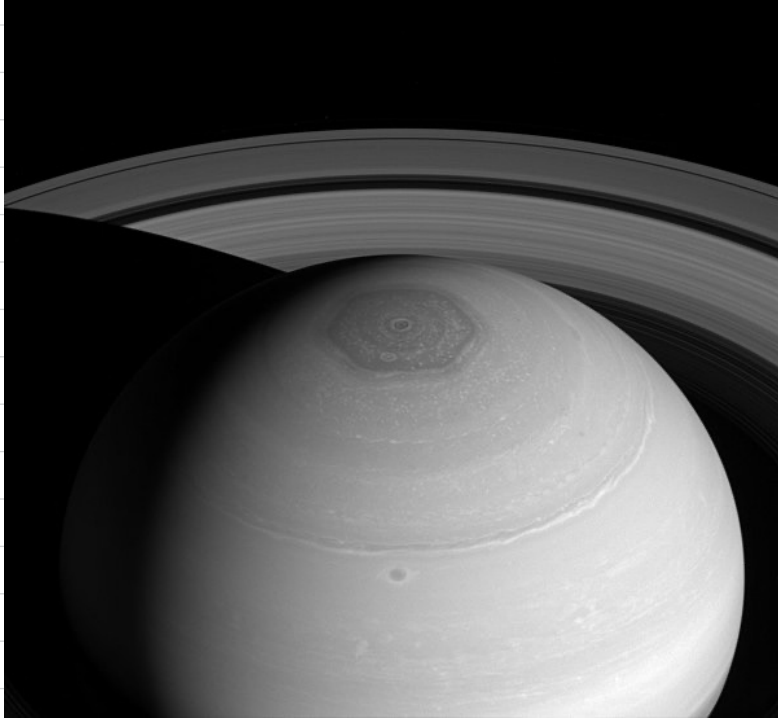
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Grant's
Causeway?



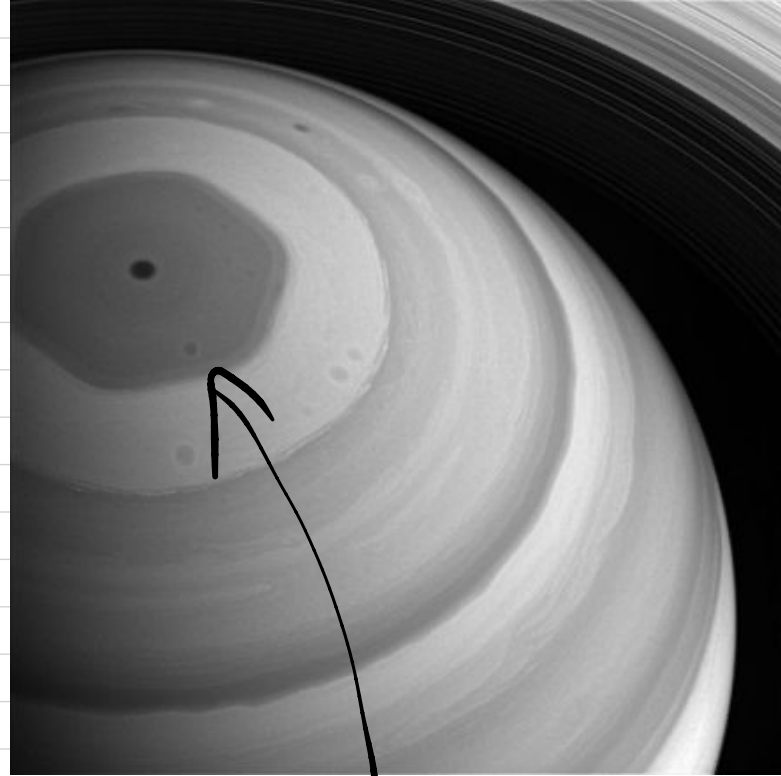
"Grant's Causeway (13).JPG"
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Saturn!

Public Domain
(NASA)



Over 10,000 miles

Public Domain
(NASA)

1. b). Calculate $f'(2)$ by approximation.

| | |
|--------|------------------------------------|
| t | 2.1, 2.01, 2.001, ... |
| $f(t)$ | $150 - 16 \cdot (2.1)^2$ |
| $f(2)$ | $150 - 16 \cdot 4 = 150 - 64 = 86$ |

| | |
|---------------|-------------------------------|
| $f(t) - f(2)$ | $150 - 16 \cdot (2.1)^2 - 86$ |
| $t - 2$ | 0.1, 0.01, 0.001 |

| | |
|-----------------------------|---|
| $\frac{f(t) - f(2)}{t - 2}$ | $\frac{150 - 16 \cdot (2.1)^2 - 86}{0.1}$ |
|-----------------------------|---|