

# The Subject Math GRE Test

Oscar Vega  
ovega@csufresno.edu

Fresno State  
August 31<sup>st</sup>, 2018

# GRE

- The ‘admission test’ to graduate school is called GRE (Graduate Record Examinations).

<http://www.ets.org/gre/>

- There are two types of GREs (for math people).

- 1 General Test

- (a) Quantitative part
- (b) Verbal part
- (c) Analytical Writing

- 2 Math Subject:

- (a) Calculus and its applications ( $\sim 50\%$ )
- (b) Linear Algebra, Abstract Algebra, Number Theory. ( $\sim 25\%$ )
- (c) Discrete Math, Differential stuff, Topology, Probability, Statistics, etc. ( $\sim 25\%$ ).

- These are multiple choice tests, except the Analytical Writing part of the General GRE.

# GRE

- You can take the computer-delivered GRE General Test once every 21 days, up to five times within any continuous rolling 12-month period.
- You can take it at Fresno State.
- It costs \$205.
- The Math Subject GRE is offered three times a year. In the 2018-19 academic year, this test is offered on 09/15/18, 10/27/18, and 04/06/19.
- You can also take it at Fresno State. There are no spots available at Fresno State for the September test.
- It costs \$150.

# Subject Math GRE

- Approximately 66 multiple-choice questions.
- It lasts 2 hours and 50 minutes.
- There is no penalty for wrong answers. 25 correct answers gives you 500 points, every five correct answers more give you 50-60 more points.
- As mentioned before, this test is, roughly:
  - (a) Calculus and its applications ( $\sim 50\%$ )
  - (b) Linear Algebra, Abstract Algebra, Number Theory. ( $\sim 25\%$ )
  - (c) Discrete Math, Differential stuff, Topology, Probability, Statistics, etc. ( $\sim 25\%$ ).
- In this workshop, we will focus, mostly, on the first 75% of the topics... which is a perfect review for MATH 171 and MATH 151.

# Not Taking the GRE? What About MATH 151/171?

- MATH 171 is, basically, Calculus I and II (MATH 75 and 76) with proofs. In order to succeed in this class you need to be on top of your Calculus... which many of you would have forgotten by the time you get to MATH 171.
- This workshop will not only refresh your memory about Calculus, but it will also push you to **think** about limits, derivatives, etc. This will help you at the time you take MATH 171.
- Similarly. Our general advice for students preparing for MATH 151 is that they take Linear Algebra and/or Number Theory (MATH 152 and MATH 116) before they take MATH 151. In this workshop we will see lots of problems in topics that can be classified under MATH 152, MATH 116... and MATH 151.
- So, this workshop can help you to prepare for these classes... it will not help you writing good proofs, though.

Thanks!