MATH 201: Questions for Class Discussion



[riddles](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdAug27.pdf): Aug 27

[introduction to sets](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdAug29.pdf): Aug 29

[naïve set theory](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdSept3.pdf): Sept 3

[propositional logic](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdSept5.pdf): Sept 5

[first-order predicate logic](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdSept10.pdf): Sept 10

[practice problems](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/practiceExQz1Sept12.pdf) (Ch 1 – 2) Sept 12

[counting: introduction](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdSept17.pdf) Sept 17

[counting continued](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdSept19.pdf) Sept 19

[counting: harder exercises](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdSept24.pdf) and Test 1 prep: Sept 24

*Test 1* Sept 26

[mathematical induction](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdOct1.pdf) Oct 1

[induction continued](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdOct10.pdf) Oct 10

[direct proofs](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdOct15) Oct 15

*Test 2* Oct 17

[proof by contrapositive](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdOct22.pdf) and intro to modular arithmetic Oct 22

[proof by contradiction](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdOct24.pdf) Oct 24

[gcd and lcm](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdOct29.pdf) Oct 29

[congruence, Fermat’s little theorem](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdOct31.pdf) Oct. 31

[relations; equivalence relations](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdNov5.pdf) Nov 5

*Test 3* Nov 14

[mappings](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdNov19.pdf) Nov 19

[cardinality](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdNov21.pdf) Nov 21

[Georg Cantor](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdNov26.pdf)  Nov 26

[pigeon-hole principle](http://www.math.luc.edu/~ajs/courses/fall2019/201/cd/cdNov26.pdf) Dec 3