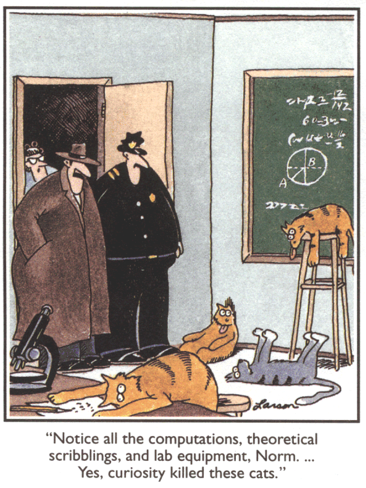
**Questions for class discussion:  MATH 351**

**Fall 2018**



[27 August](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdAug27.pdf) videos (Abbott & Costello, Colbert, Ramanujan summation)

29 August real number system; closure properties of sets with a binary operator

[31 August](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdAug31.pdf) monotone sequences; Completeness Property of **R**; convergence of; combinations

[5 September](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdSept5.pdf) binomial theorem; Euler’s number; equivalence relations

[7 September](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdSept7.pdf)  notation ( close, for large *n*); limits of sequences

[10 September](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdSept10.pdf) K- principle; more on limits

[12 September](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdSept12.pdf)  limits, continued

[14 September](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdSept14.pdf) error term analysis

17 September laws of limits; subsequences

[19 September](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdSept19.pdf) squeeze theorem

[21 September](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdSept21.pdf) location theorems; subsequences

[24 September](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdSept24.pdf) subsequences; nested interval theorem

[26 September](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdSept26.pdf) nested intervals, subsequences, continued

28 September practice test review

1 October Test I

[3 October](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdOct3.pdf) cluster points, Bolzano-Weierstrass theorem

[5 October](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdOct5.pdf) Bolzano-Weierstrass, Cauchy sequences

[10 October](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdOct10.pdf) Cauchy sequences; supremum, infimum of a set

[12 October](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdOct12.pdf) Completeness theorem; intro to lim sup

[15 October](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdOct15.pdf) Continuity

[17 October](http://webpages.math.luc.edu/~ajs/courses/351fall2018/cd/cdOct17.pdf)  lim sup, lim inf, introduction to series

22 October Test II

[24 October](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdOct24.pdf) series (ratio and root tests; asymptotic convergence test; integral test; Cauchy’s test)

[26 October](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdOct26.pdf) power series and intro to functions

[29 October](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdOct29.pdf) functions

[31 October](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdOct31.pdf) continuity; limits

[2 November](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdNov2.pdf) functions of one variable; continuity; limits; sequential continuity

[5 November](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdNov5.pdf) limit theorems; sequential continuity

[9 November](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdNov9.pdf) Bolzano’s theorem

[12 November](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdNov12.pdf) Bolzano’s theorem; IVT

[14 November](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdNov14.pdf) Compactness; Extreme Value Theorem

[16 November](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdNov16.pdf) Maximum theorem; continuous mapping theorem; review for test 3

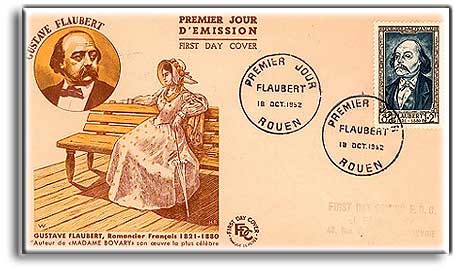
19 November *Test III*

[26 November](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdNov26.pdf) mappings; uniform continuity

[28 November](http://www.math.luc.edu/~ajs/courses/351fall2018/cd/cdNov28.pdf) metric spaces

*Work!  God wills it.  That, it seems to me, is clear.*

                 - Gustave Flaubert  (letter to Louise Colet, 1845)



[Course Home Page](http://www.math.luc.edu/~ajs/courses/351fall2018/index.pdf)          [Department Home Page](http://www.math.luc.edu/)        [Loyola Home Page](http://www.luc.edu/)