

Introduction to Matroids
Guest lecture in COMP150-Graph Theory
Anselm Blumer

Slides available at: www.cs.tufts.edu/~ablumer/Matroids.pdf

References:

- West, Introduction to Graph Theory, 2nd edition
chapter 8.2, pp. 349-78
- Cormen, Leiserson, Rivest, and Stein, Introduction to Algorithms,
3rd edition, chapter 16.4, pp. 437-50
- Papadimitriou and Steiglitz, Combinatorial Optimization, Dover
(1998), chapter 12, pp. 271-306
- Neel and Neudauer, Matroids You Have Known, Mathematics
Magazine, vol. 82, no. 1, February 2009. maa.org
- Wikipedia, Wolfram MathWorld, encyclopediaofmath.org

Homework:

- Homework problems due on Friday, November 8: 8.2.9 and 8.2.21.
- Optional problems: 8.2.1, 8.2.6, and 8.2.43. Note that 8.2.43
assumes knowledge of a small amount of linear algebra.