

Math 391 : Markov Chains and Mixing Times
Homework #2
Assigned Tuesday, May 26. Due Tuesday, June 2.

1. Exercise 1.1 from Levin, Peres, Wilmer.
2. Let P be the transition matrix for the Lazy Random Walk on the n -cycle (defined at the top of page 9) when n is even. Repeat Problem 1 for this P .
3. Exercise 1.2 from Levin, Peres, Wilmer.
4. Exercise 1.3 from Levin, Peres, Wilmer.
5. Draw all trees of size up to $n = 5$ (including $n = 5$), where n is the total number of vertices.
6. Exercise 1.4 from Levin, Peres, Wilmer.
7. Exercise 1.5 from Levin, Peres, Wilmer.