

Combinatorics, Math 145
Homework four

1. 7.3.2, 7.3.3, 7.3.9, 7.3.10, 7.3.11.
2. Let G be a connected graph in which any two distinct vertices u, v have either 0 or 5 common neighbors. Prove that G is k -regular for some k (means that all vertices have the same degree).
3. 8.1.3, 8.3.1.