

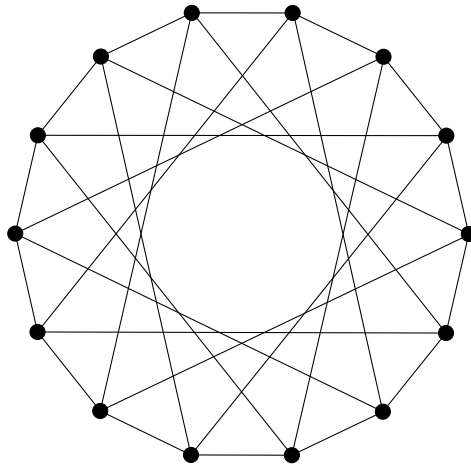
12–15 Sept 2014

Math 181

Turn in any unfinished problems on Wednesday.

1. On a field 400 yards long, ten people each mark off football fields of length 100 yards. Prove that some point belongs to at least four of the fields.
Note: If two fields share a boundary, then points on the boundary belong to both fields.

2. Use the following graph to show that $R(3, 5) = 14$.



3. Write a “mathography” about your feelings towards and experiences in mathematics. Include the completion of the statements “What I like most (or least) about math is ...”. Thoughtful responses are more important than length. Please proofread so that your mathographies are easy to read, but this is not an English course, so it is not my philosophy to deduct points for typos or grammar.
4. (Bonus/joke) If you want to be famous, you can attempt to prove OR disprove the following statement: $R(5, 5) = 43$.