Number Theory Homework Week 7

1. Solve .
2. Let , . Show that match up with modulo . (paying our respects to the proof of Fermat’s Little Theorem)
3. Put 2, 3, … , 21 into pairs so that (paying our respects to the proof of Wilson’s Theorem)
4. Show
5. Find and Do each 2 ways, i.e., calculate directly and also use and .
6. Find and .

5 points each