## Math 290-Number Theory for Teachers Problem of the Day #9 Due Wednesday, February 5, 2014

- What are the powers of 10 mod 3? Use this to decide what 7421 = 7000 + 400 + 20 + 1 is mod
  Does this suggest a method for determining when a number is divisible by 3?
- 2. Can you do something similar for 9? How can you quickly tell if a number is divisible by 9?