

Math 580: Quiz 3

Show ALL Work

Name _____

Comment: This quiz does not require a lot of work if you are doing these problems correctly. As a consequence, it will be very difficult to get enough partial credit for an “A” unless you have the correct answers. I also want to see where your answers are coming from. You should check your work to make sure it is clear and easy to follow as well as correct.

1. Calculate the inverse of 43 modulo 4321. Give an answer that is in the set $\{0, 1, 2, \dots, 4320\}$.

Inverse of 43 modulo 4321: (from $\{0, 1, 2, \dots, 4320\}$)

2. Calculate the inverse of 4321 modulo 43. Give an answer that is in the set $\{0, 1, 2, \dots, 42\}$. You can use your work for the problem above.

Inverse of 4321 modulo 43: (from $\{0, 1, 2, \dots, 42\}$)