

Math 204- Discrete Mathematics, Spring 2010

Quiz 4, April 5, 2010, 15:40 group

Time: 20 minutes

Write your solutions clearly, provide explanation, etc.

Do not forget to write your name and ID No on top of the page!

Problem 1 (6+7 pts). Let $n = 624$ and $m = 735$.

a. Determine $\gcd(n, m)$.

b. Use Euclidean algorithm to write $\gcd(n, m)$ as a linear combination of n and m .

Problem 2 (7 pts). Solve the congruence $x^{44} - 3 \equiv 6 \pmod{7}$.