

Discrete Mathematics, Sect 002, 2016 Spring - Quiz 8

March 21, 2016

Name:

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This quiz is scheduled for 15 minutes. No outside notes or calculators are permitted. To get full credit in all of the problems, use rigorous justification and unless otherwise indicated, make sure that your solution reads as a perfect English sentence. You should only assume the notion of integers, operations, order relations and geometrical objects as given. If you use a statement or a definition from the textbook, make sure to indicate it.

1. (10 points) For each of the following, find all positive integers N that make each of the equations true.
 - (a) $N \operatorname{div} 10 = 5$.
 - (b) $N \bmod 10 = 5$. (You have infinitely many of them, just give a description.)

2. (10 points) Compute $\gcd(72, 45)$.