Course: CS 1050 C (Fall'03) – Homework 1

Instructor : Prasad Tetali, office: Skiles 126, email: tetali@math.gatech.edu Office Hours: Wed. Fri. 4:30–5:30pm, Thurs. 2:00–3:00pm

Due: next Wednesday

Section 3.1: 6, 7, 16, 45 (Hint for 45: find a counterexample)

Section 3.3: 15, 24, 25, 28, 29

Section 3.4: 14, 18

Optional Problems.

Section 3.4: 20, 22

•. Show that there are infinitely many primes in the sequence 3n + 2, n = 1, 2, 3, ...

Unresolved problems.

1. It is conjectured but not proved that there are infinitely many twin primes – some examples being (3,5), (5,7), (11,13), (17,19), ...

2. Goldbach's conjecture. More than 250 years old is the unresolved conjecture that every even positive integer (> 2) can be written as the sum of two primes.

TAs emails:

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