

CSE 20: Quiz 3

Total marks: 50

Total Time: 25 minutes

26th February, 2014

Name:

PID:

1. (25 Marks) Prove that $n^2 > 2n + 1$ for all integer $n \geq 2$.

2. (25 Marks) Prove that for all natural number n ,

$$1^2 + 2^2 + 3^2 + \cdots + n^2 = \frac{1}{6}n(n+1)(2n+1)$$