

CSCI 1311: Quiz 2

3 Feb 2020

Name: _____ email: _____

Question Weighting

Question:	1	2	3	Total
Points:	6	3	6	15
Score:				

While there are 15 points on the quiz, it is graded out of 10. All points beyond 10 are considered bonus.

1. [6 points] Prove that, for all integers a and b , if $a|b$ and $a|c$, then $a|(b+c)$.
(hint: recall that if $x|y \implies (\exists z)(y = xz)$)

2. [3 points] What is the contrapositive of the statement: if n^2 is odd, then n is odd.

3. [6 points] Using the contrapositive, prove that if n^2 is odd, then n is odd.