

Quiz #4

Monday, October 9 2017

Duration: 25 min
NAME:
Please write clearly and properly.

Problem	Grade
1	
2	
3	
Total	

Problem 1 (∼ 6 points.).						
Write a proof of the following theorem: Theorem. For any integer $n \in \mathbb{Z}$, n is even if and only if n^2 is even.						

Problem 2 (~ 4 points.).						
Let a and b be two real numbers. rational. Is the converse true?	Prove that if a and b are both rational, then $a + b$ is					

Problem 3 (\sim 6 points.). Write a proof of the following theorem:							
							Theo
Hint:							