+ 15

Name	Key	

Math 102 Quiz 1 Section 2.1

 ${\it Use proper notation for full credit.}$

1. Determine whether each set is well defined. (1 pt/problem)	
a. {5, 10,} Not well defined, (don't know if it doubles or adds should have at least 3 elements)	
b. {x: x is a rational number greater than 3 inclusively} Uell delined	
c. {y: y is a busy person} Not well defined	
2. Fill in the blanks with one of the following ∈ or ≠ to make each statement true. (1 pt/problem)	
a. $\sqrt{49}$ \subseteq J b. $\{1, 2, 3,\}$ $\not\equiv$ N 7 Integers $\not\equiv$ $\not\equiv$ set rather than an element 3. Re-write the following: (2 pts/problem)	
a. Change to set-builder notation {1, 2, 3, 4,, 15}.	
1.a. \(\lambda \times \times \) \(\times \times \) \(\times \times \) \(\times \times \) \(\times \times \times \) \(\times \time	
b. <u>\$9,8,7,6,}</u>	
c. Change to listing/roster method to express the set of integers which when squared equal 36.	
4. Describe each as finite or infinite. (1 pt/problem) a. {y: y is real number between 8 and 80}infinite.	
b. {y: y is a word in the English Language}	
5. Draw a bag diagram to illustrate the set {7, {3, 6}, {Ø}}. (2 pts)	

