MATH 150 QUIZ 2 - Version A

September 16, 2013
Name: ANSWER KEY Instructions: Use your own scrap paper. Write your answers in the space provided.
1. What is a valid (deductive) argument?
an argument where the conclusion necessarily follows from the premises (if the premises are true, then the conclusion will be).
2. What is a sound (deductive) argument?
a valid argument with true premises
3. For the following argument, (a) draw a Venn diagram and (b) determine if it is valid or invalid.
Premise 1: Some lawyers hate women Premise 2: No charming people hate women Premise 3: All people who hate women are nasty No nasty people are charming C - charming people L - lawyers HW - hate women N - nasty
(b) Valid or (nvalid) (circle one).
4. Consider the following argument structure: If P, then Q P is not true ∴ Q is not true
(a) What is the name of this argument structure? Denying the hypothesis
(b) Is the argument valid or invalid?
Bonus: Negate the following statement: No salesman knows what he is talking about.
Some (otland was) california lengue what he is Lalkin

about.