Validity and Soundness in Deductive Arguments

A. Which of the following arguments is the best and why?

I	II	III
 I have a cat that climbed Mt. Everest. Everybody who's climbed Mt. Everest is named Mr. 	 An adult elephant is heavier than a mouse. An adult elephant is heavier than a toothpick 	 Notre Dame is in Indiana. If Notre Dame is in Indiana, then it's not in Alaska.
Tibbles.	 2 A 1-14 -1 - 14 :-	2. Natur Danie is natio
3. I have a cat named Mr. Tibbles.	3. An adult elephant is heavier than a mouse with a toothpick.	3. Notre Dame is not in Alaska.

B. State some definitions of validity.

C. For each of the following, say if it is possible, a	and, if so, provide an example:
1. A valid argument with all false premises and a true conclusion.	4. An invalid argument with at least one true premise and a false conclusion.
2. A valid argument with all true premises and a false conclusion.	5. A valid argument with at least one false premise and a false conclusion.
3. An invalid argument with all false premises and a true conclusion.	6. A valid argument with at least one true premise and a false conclusion.
D. State the definition of a sound argument.	
What do you know about the conclusion of a soun	d argument?

E. Bonus Questions:
1) Are circular arguments (i.e. those where one of the premises is basically the same as the
conclusion) valid?

- 2) Can you have a valid argument with one premise? With three premises? Give examples.
- 3) What other things besides validity and soundness are important in determining whether an argument is good?