

Validity

September 10, 2013

Instructions: For each argument below, indicate whether it is (a) formally valid, (b) non-formally valid, or (c) invalid. Briefly explain your answer.

- (i) No vegan eats honey.
 1. (ii) Some honey-eaters are vegetarians.

∴ Some vegetarians are not vegans.

- (i) No Daleks are Sontarans.
 2. (ii) Some Sontarans are whovians.

∴ Some Daleks are not whovians.

- (i) Your GSI drinks Americanos regularly.
 3. ∴ Your GSI drinks coffee regularly.

- (i) River Tam was a grad student in physics by age 14.
 4. ∴ Every dinosaur is blue, or green, or neither.

- (i) Jenny McNeal is a single female lawyer.
 5. (ii) Every single lawyer, unless they're female, is rich.

∴ Jenny McNeal is not rich.

- (i) No women are healthy.
6. (ii) Some healthy people are also actresses.
∴ Some actresses are not women.
- (i) No highly trained dogs are vicious.
7. (ii) Some vicious dogs are police dogs.
∴ Some highly trained dogs are not police dogs.
- (i) Don Draper is creative director for Sterling Cooper.
8. (ii) Don Draper is creative.
∴ Don Draper is creative.
- (i) If Gus is alive, then Walt is safe.
9. (ii) If Walt is not safe, then Gus is alive.
∴ Walt is safe.
- (i) Every secret agent is smart.
10. (ii) Archer is a secret agent but he's not smart.
∴ The zombie apocalypse is here.
- (i) If Lucy is a Cal student, she's clever.
- (ii) Lucy is not a philosophy major.
11. (iii) The only clever students are philosophy majors.
∴ Lucy is not a Cal student.