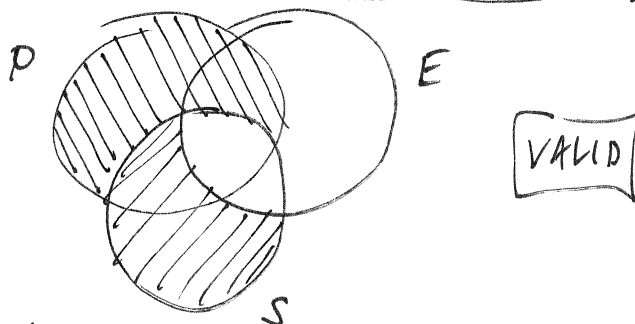


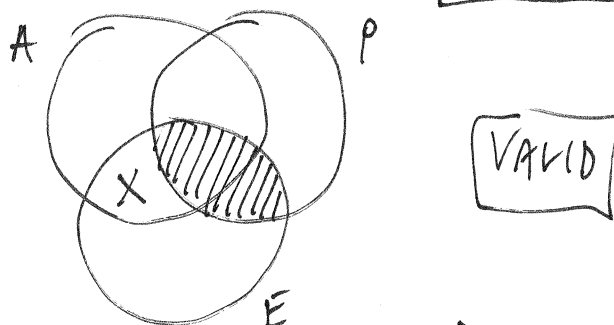
NAME: SOLNS

## I. Using the Venn diagram method, determine whether each of the following standard-form categorical syllogisms is valid.

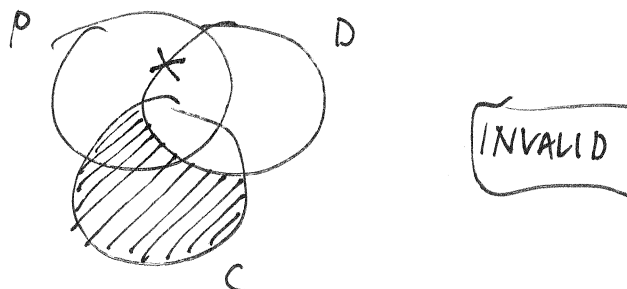
1. All <sup>=P</sup>people who call psychic hotlines <sup>=S</sup>are <sup>=E</sup>superstitious people. All superstitious people are people who are easily influenced. Therefore, all people who call psychic hotlines are <sup>=E</sup>people who are easily influenced.



2. Some <sup>A</sup>activists <sup>E</sup>are <sup>E</sup>environmentalists and no environmentalists are people who pollute. Therefore, some activists are not <sup>E</sup>people who pollute.



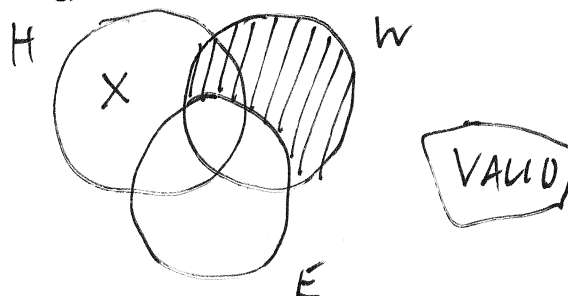
3. All <sup>C</sup>crooks <sup>D</sup>are <sup>P</sup>people who deserve to be punished. Some <sup>P</sup>politicians are not crooks. Therefore, some politicians are not people who deserve to be punished.



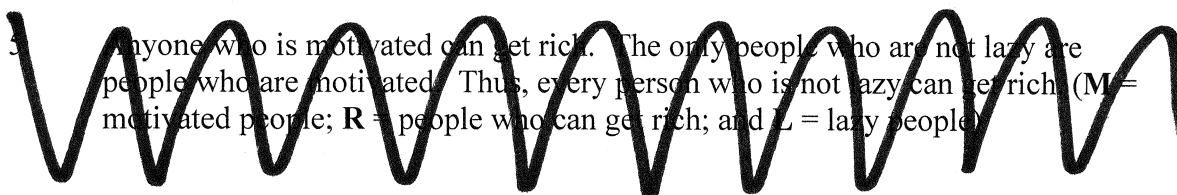
**II. Reconstruct each of the following arguments as a standard-form categorical syllogism; then, using the Venn diagram method, determine whether it is valid.**

4. A few hobbies are not exciting. But anything worth doing is exciting. Therefore, at least one hobby is not worth doing. (H = hobbies; E = things that are exciting; and W = things that are worth doing)

Some H are not E  
 All W are E  
 -----  
 Some H are not W.

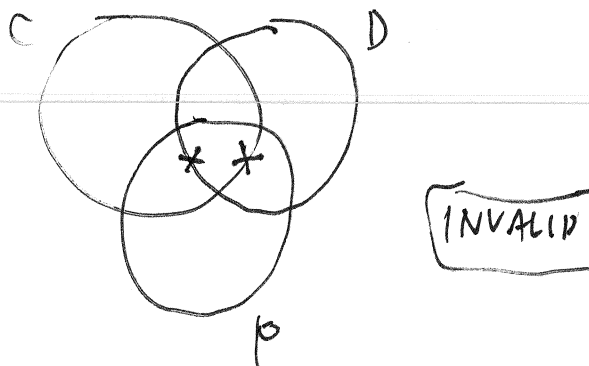


5. Anyone who is motivated can get rich. The only people who are not lazy are people who are motivated. Thus, every person who is not lazy can get rich. (M = motivated people; R = people who can get rich; and L = lazy people)



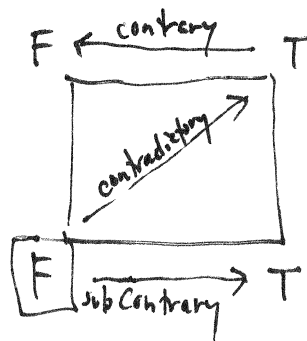
6. Most poets drink to excess, and some poets are Canadian. So, some Canadians drink to excess. (P = poets; D = people who drink to excess; and C = Canadians)

Some P are D.  
 Some P are C.  
 -----  
 Some C are D.

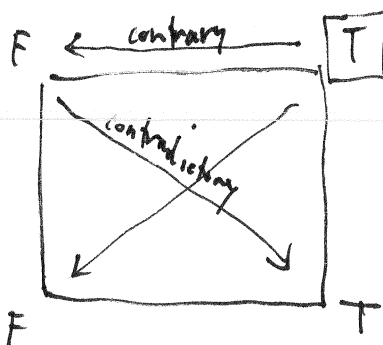


**III. Using the square of opposition and the truth value of the first claim, determine whether the other claims are (a) true, (b) false, or (c) undetermined.**

7. a. **False:** Some gamblers are people with financial problems.  
 b. FALSE All gamblers are people with financial problems.  
 c. TRUE No gamblers are people with financial problems.  
 d. TRUE Some gamblers are not people with financial problems.



8. a. **True:** No Republicans are Democrats.  
 b. FALSE All Republicans are Democrats.  
 c. FALSE Some Republicans are Democrats.  
 d. TRUE Some Republicans are not Democrats.



**IV. You are given an argument from analogy and six additional facts. For each additional fact, state whether it makes the resulting argument *stronger* (+), *weaker* (-), or whether it has *no effect* on the strength of the argument (o).**

9. Professor Hampton has stayed at the Starlight Hotel every summer for the past six years on her annual visit to Salt Lake City and has been quite satisfied with her accommodations each time. She concludes that she will be satisfied with her accommodations at the Starlight Hotel this summer on her annual visit to Salt Lake City.

- +   a. During her previous visits to the Starlight Hotel, she twice occupied a single room, twice shared a double room, and twice occupied a suite.
- b. Last spring, the hotel came under new management.
- c. Professor Hampton occupied a suite during each of her previous visits to the Starlight Hotel, but during this visit she will occupy a single room.
- o   d. Previously, Professor Hampton drove into Salt Lake City, but this time she will fly into Salt Lake City.
- +   e. Professor Hampton has stayed at the Starlight every summer for the past fourteen years, and she has been quite satisfied with her accommodations each time.
- f. Professor Hampton concludes that her accommodations at the Starlight this summer will be the very best accommodations that she has ever had.