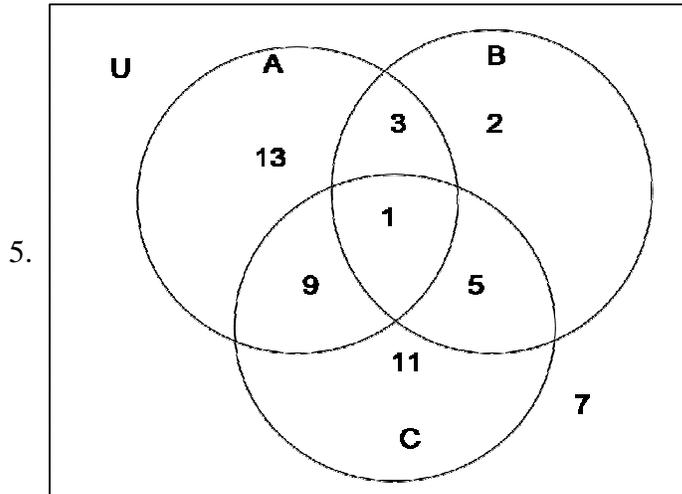


4. Of the students enrolled in Finite Math, 154 have had College Algebra, 49 have had Business Calculus and 38 have had both and 26 have not have either class.

- a. How many students are enrolled in Finite Math?
- b. How many students have taken exactly one class?



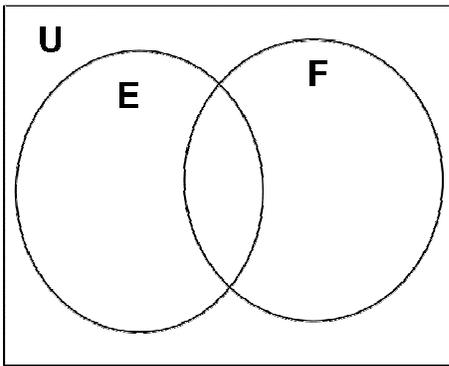
Given the following Venn diagram, find the following:

- a. $n(B^c \cup (A \cap C))$
- b. $n((A \cup B) \cap C^c)$
- c. $n((A \cap C)^c \cap B)$

6.

- a. An author is asked to pick 4 short story works he had written out 40 for publication in book form. In how many ways can these works be chosen?
- b. A committee has viewed 8 proposals and they have to rank the top 4. In how many ways can this be done?

7. Let E and F be events of a sample spaces S . Let $P(E) = 0.37$, $P(F) = 0.46$ and the $P(E \cap F^c) = 0.14$



- a. Find $P(E \cup F)$.
 - b. Find $P(E \cup F^c)$.
8. Toss a coin 10 times. Find the probabilities:
- a. What is the probability of exactly 2 heads occurs?
 - b. In how many ways can at most one head occurs?
 - c. What is the probability of at least 1 tail occurs?

