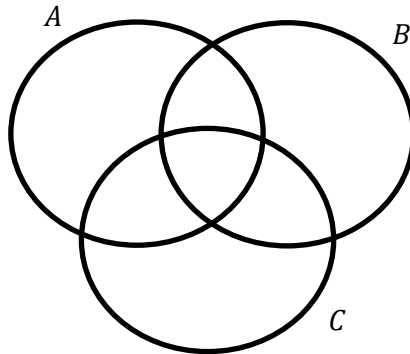


1) In the Venn Diagram below, shade in the region $(A \cap B) \cup (C - B)$.

(3 points)



2) In a group of 100 students we know the following information:

- 25 are majoring in mathematics
- 60 are majoring in computer science
- 10 are double majoring in both mathematics and computer science

How many are majoring in computer science but not mathematics?

(3 points)

3) Determine the truth value of $(P \vee Q) \wedge (R \vee \neg S)$ when:

- P is true
- $Q, R,$ and S are false.

(answer = 1 point; supporting work = 3 points)