PROBLEM 2: SET OPERATIONS AND PROBABILITIES

(3/3 points)

Find the value of $\mathbf{P}\left(A \cup (B^c \cup C^c)^c\right)$ for each of the following cases:

1. The events A, B, C are disjoint events and $\mathbf{P}(A) = 2/5$.

   $\mathbf{P}\left(A \cup (B^c \cup C^c)^c\right) =$ 0.4 ✔

2. The events A and C are disjoint, and $\mathbf{P}(A) = 1/2$ and $\mathbf{P}(B \cap C) = 1/4$.

   $\mathbf{P}\left(A \cup (B^c \cup C^c)^c\right) =$ 0.75 ✔

3. $\mathbf{P}\left(A^c \cap (B^c \cup C^c)\right) = 0.7$.

   $\mathbf{P}\left(A \cup (B^c \cup C^c)^c\right) =$ 0.3 ✔

You have used 1 of 2 submissions

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