HW #1

Please, write clearly and justify all your steps, to get proper credit for your work.

- (1)[4 Pts] In a class of 125 students, the instructor gave 40 A's, 30 B's, 35 C's, 15 D's and 5 F's. Compute the relative frequency of the 5 events. Compute the relative frequency of getting a grade that is better than C.
 - (2)[4 Pts] Let $S = A \cup B$, P(A) = 0.6, P(B) = 0.8.
- (a) Find $P(A \cap B)$
- (b) Find $P(A^c \cup B^c)$
 - (3)[6 Pts] Let $P(A \cap B) = 0.2$, P(A) = 0.5, P(B) = 0.4.
- (a) Find $P(A \cup B)$
- (b) Find $P(A^c \cup B^c)$
- (c) Find $P(A^c \cap B)$