

Quiz 7

True/False - No explanation needed. (1pt for correct, 0pt - no answer, -1pt - incorrect)

1. $P(B|A) = 1 - P(B|\bar{A})$. True/False
2. Roll two dies. Let X be the first die roll, Y be the minimum of two dies. X and Y are independent. True/False

Problems - Need justification. No justification means **zero**!

1. (10pts) Draw 10 cards from a deck of cards. Let X be the number of diamonds.
 - a) Identify the name of distribution of X .
 - b) Identify the range of X .
 - c) Write the formula for PMF of X .
 - d) Find $P(X = 6)$.