

Quiz 6

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

1. It is sufficient to conclude that the event A is independent from the event B if $P(B) = P(B|A)$. True/False
2. The fact $P(A|B) = 0$ is a special case implying that the event A is independent from the event B. True/False

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

1. (10pts) Suppose a weatherman predicts rainy days correctly with an accuracy of 80% and predicts clear days correctly with an accuracy of 70%. Given that it rains 10% of the time, and the weatherman predicted that it will not rain tomorrow, what is the probability that it will actually not rain tomorrow?