

5. Nick will miss an important Cricket match while taking his Information theory exam, so he sets both his VCRs to record it. The first VCR has 70% chances to successfully record the match and the second VCR has 60% chances to successfully record the match. What is the probability that he gets home after the exam and finds? (Note: Here we assume that events A and B are independent, so with $P(A) = 0.7$ and $P(B) = 0.6$ and their set complements A^c and B^c occurring with probabilities 0.3 and 0.4 respectively).