



1 4 Conditional Probabilities

1.6 Bayes' Formula

A test for detecting a certain disease has probability 0.99 of being correct in all cases. If 1% of the population has the disease and a randomly selected individual tests positive, which is closest to the probability that he/she actually has the disease? B_{0.5} 0.99 C_{0.09} 0.05 Notes: Answer: B. Responses were all over the place, with many not

responding at all. We did a guick demo in the classroom and suddenly most answers changed to B. Did not have time to show why this is also a

special case of Bayes' Formula, but it is.

Jan. 9