A cab was involved in a hit and run accident late at night. Two cab companies, the Green and the Blue, operate in the city. You know the following:

(1) 85% of the cabs in the city are Green and 15% are Blue.

(2) A witness identified the cab as Blue. The court tested the reliability of the witness under the same circumstances that existed on the night of the accident and concluded that the witness correctly identified each one of the two colors 80% of the time and failed 20% of the time. What is the probability that the cab involved in the accident was indeed from the Blue?
A physician devised a quick test for HIV. An independent blind comparison was made with the gold standard among 100 patients. Among the 20 patients found to be HIV positive according to the gold standard, 15 were positive for the test. Among 80 patients found to be HIV negative according to the gold standard, 40 patients were positive for the test.

Compute the sensitivity, specificity, positive predictive value, and negative predictive value for the test.