1) False.

Reason: Y is probabilitie in Naive Bayes.

So this clearly mean that there will be an unavoidable error and comif and even if P(4) is nearly prefect, we can't predict 4.

Also, Noive Bayes is likear. This adds on to the Proof that it coult give a perfect P(4)

$$TN = 0.97$$

 $FN = 0.1$

$$P(E|E_{+}) = P(E_{+}|E) * P(E)$$

$$P(E_{+})$$

$$P(E_{+})$$

= 0.9 × 0.08

$$\frac{0.9 \times 0.08 + 0.92 \times 0.03}{0.071} = 0.71$$

$$p(E) = 0.9 \times 0.6$$
 = 0.54
0.9 \times 0.54 + 0.012