Johdatus tekoälyyn, laskarit 4

T1.

(a)

$P(SPAM) = 0{,}5$

$P(SANA_1 = Viagra \mid SPAM) = 0{,}0021$

$P(SANA_1 = Viagra \mid \neg SPAM) = 0{,}0001$

$$P(SPAM \mid SANA_1 = Viagra) = \frac{P(SANA_1 = Viagra \mid SPAM)\,P(SPAM)}{P(SANA_1 = Viagra \mid \neg SPAM)}$$

$$= \frac{0{,}0021 \cdot 0{,}5}{0{,}0001} = 10{,}5 > 1$$