Statistics Assignment - 7

① Out of all emails,

80% are spam.

10% of 80% = 8%

So, 8% of all emails are both spam and

use phrase "free money"

Out of 20% non spam,

1% of 20% = 0.2%

So, 0.2% of all emails are both nonspam

and use phrase "free money"

Thus, probability that the "free money"

email is spam is

$$\left(\frac{8}{8 + 0.2} \right) = \frac{8}{8.2} = 0.9756.$$