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## Probabilitati și Statistică -TEST LABORATOR-

Genia Colriel gr. 231

Exercitive 1:

$$P(A|B) = \frac{P(A) \cdot P(B|A)}{P(A) \cdot P(B|A) + P(A^{c}) \cdot P(B|A^{c})} = \frac{0,001 \cdot 0,99}{0,001 \cdot 0,99 + 0,999 \cdot 0,005}$$

$$= \frac{0,00099}{0,005985} = 0,1654$$

Exercitive 2:

Fie X als. continua;

$$\frac{E(x^{2020}) \cdot \int_{0}^{\infty} t^{2020}}{t^{2020}} \int_{0}^{\infty} x(t) dt} = 0$$

$$\int_{0}^{\infty} \int_{0}^{\infty} t^{2020} \int_{0}^{\infty} x(t) dt = 0$$