cd. Zad. 2

$= 0.99 \cdot 0.9 \cdot \underline{1.071} = \underline{\underline{0.954261}}$

To jest mendopadobieństwo !

$P(S) = 0.954261$

cd. Zad. 1

$P(A) = P(A|H_1)P(H_1) + P(A|H_2)P(H_2) = 0.99 \cdot 0.02 + 0.05 \cdot 0.98$

$= 0.0198 + 0.049 = 0.0688 \quad \checkmark$

$P(H_2 \cap A) = P(A|H_2) \cdot \cancel{P(A)} P(H_2)$

$P(H_2 | A) = \dfrac{P(H_2 \cap A)}{P(A)} = \dfrac{P(A|H_2) \cdot P(H_2)}{P(A)} = \dfrac{0.05 \cdot \cancel{0.0688} \; 0.98}{0.0688}$

$\approx \dfrac{0.049}{0.0688} = 0.7122093 \approx \underline{0.71}$

$\checkmark$