1. Write answers to the following questions.

- $\vec{P}\left(Visit\,to\,Asia|dypnoea\right) = \left[0.01032, 0.9868\right]$

- $\vec{P}\left(Tuberculosis|positive\,X-ray, \neg dyspnoea\right) = \left[0.05402, 0.94598\right]$

- $P\left(bronchitis|\neg lung\,cancer\right) = 0.44286$

- $P\left(\neg lung\,cancer|tuberculosis, \neg dyspnoea\right) = 0.95143$

- $\vec{P}\left(Smoking|\neg positive\,X-ray, bronchitis, \neg visit\,to\,asia\right) = \left[0.64565, 0.35435\right]$