Pollution of the rivers in the United States has been a problem for many years. Consider the following events:

\[ A = \{ \text{The river is polluted.} \} \]
\[ B = \{ \text{A sample of water tested detects pollution.} \} \]

Assume \( P(A) = 0.3 \), \( P(B|A) = 0.75 \), \( P(B|A') = 0.20 \).

(a) Find \( P(A \cap B) \).
(b) Find \( P(A' \cap B) \).
(c) Find \( P(A|B) \).