

Name: _____

Quiz 2

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 $P(A|B)$.