

CISC 481 Homework 3

April 21, 2022

(30 pts) Consider the Bayesian Network in Figure 1

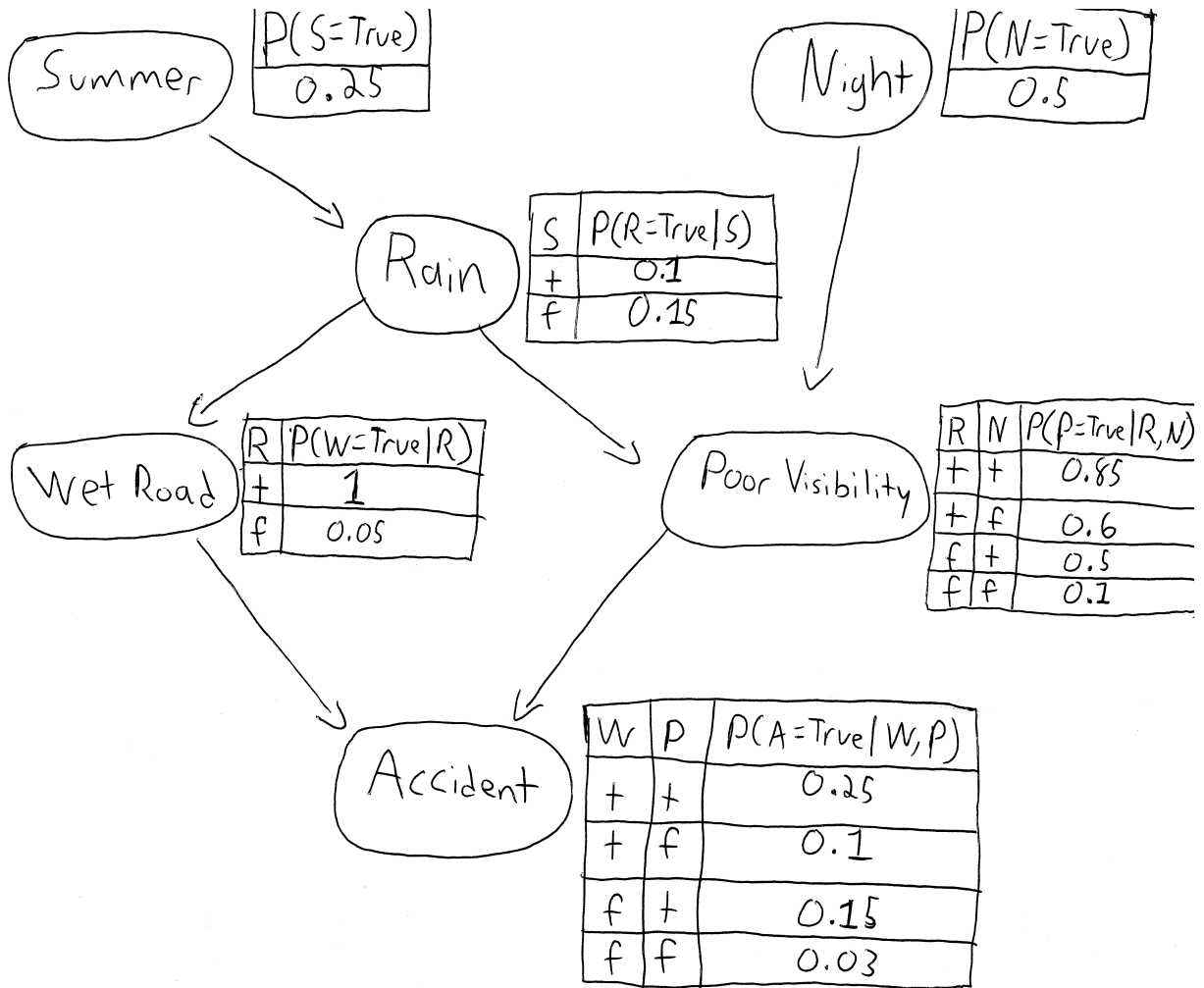


Figure 1: A Bayesian Network capturing some of what goes into the risk of an accident happening on the highway.

Calculate the probability that it's a summer night, given an accident has been reported on the freeway. In other words, $P(s,n|a)$. Show your work.