Given the Bayesian network shown in Figure 14.2, answer the following questions:

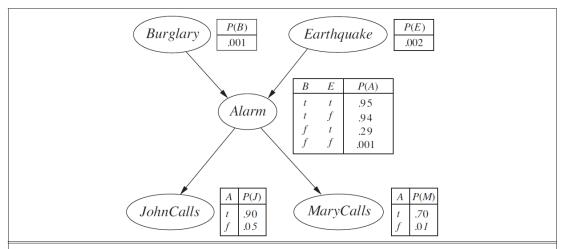


Figure 14.2 A typical Bayesian network, showing both the topology and the conditional probability tables (CPTs). In the CPTs, the letters B, E, A, J, and M stand for Burglary, Earthquake, Alarm, JohnCalls, and MaryCalls, respectively.

Question 1: What is the result of P(m, j, a, b, e)?

(please do not round; instead, provide all the digits after the decimal point)

Answer 0.000001197

Question 2: What is the result of $P(\neg m, j, \neg a, \neg e, b)$?

(please do not round; instead, provide all the digits after the decimal point)

Answer 0.00000296406