1 Basic Uncertainty
Do problem 15.5 from the revised text.

2 Bayes Rule
Prove the extended form of Bayes rule:

\[ P(A|B,C) = \frac{P(B|A,C)P(A|C)}{P(B|C)} \]

3 Bayes Nets I
Do problem 16.6 from the handouts (all parts). Be sure to pick a reasonable variable elimination ordering. Confirm that the answer you get for part (a) using variable elimination matches the answer you get using the enumeration algorithm.

4 Bayes Nets II
User variable elimination to compute \( P(\text{Sprinkler}) \) for the Bayes net in Figure 16.11 in the revised text handout.

5 Probabilistic Reasoning over Time
Do problem 17.2 from the handouts.