

# Homework 6

CS 5233 – Fall 2007  
Tom Bylander, Instructor

assigned October 22, 2007  
due October 29, 2007

1. (50 pts.) From the Bayesian network in Figure 14.2, p. 494, calculate  $P(B \mid J, M, E)$ 
  - (a) using the brute force algorithm.
  - (b) using the variable elimination algorithm.
2. (50 pts.) From the Bayesian network in Figure 14.2, p. 494, calculate  $P(B \mid J, M, \neg E)$ :
  - (a) using the brute force algorithm.
  - (b) using the variable elimination algorithm.