

Homework 7

CS 3793 – Fall 2008
Tom Bylander, Instructor

assigned November 3, 2008
due November 10, 2008

1. (50 pts.) For the following joint probability distribution, determine $P(B | D)$, $P(B | \neg D)$, $P(\neg B | D)$, $P(\neg B | \neg D)$, $P(D | B)$, $P(D | \neg B)$, $P(\neg D | B)$, and $P(\neg D | \neg B)$.

$\mathbf{P}(A, B, C, D)$				
A	B	C	D	P
T	T	T	T	0.040
T	T	T	F	0.040
T	T	F	T	0.256
T	T	F	F	0.064
T	F	T	T	0.016
T	F	T	F	0.064
T	F	F	T	0.128
T	F	F	F	0.192
F	T	T	T	0.010
F	T	T	F	0.010
F	T	F	T	0.016
F	T	F	F	0.004
F	F	T	T	0.016
F	F	T	F	0.064
F	F	F	T	0.032
F	F	F	F	0.048

2. (25 pts.) Do Exercise 13.15.
3. (25 pts.) Do Exercise 13.16.