HW 2-3 (Due Sep. 6, 2016)

Name:

Print then work on it directly. Staple HW 2-1, 2-2, 2-3 together.

Problem 1

2.96 If A and B are independent events with P(A) = .5 and P(B) = .2, find the following:

- a $P(A \cup B)$
- **b** $P(\overline{A} \cap \overline{B})$
- $\mathbf{c} P(\overline{A} \cup \overline{B})$

Problem 2

2.129 Males and females are observed to react differently to a given set of circumstances. It has been observed that 70% of the females react positively to these circumstances, whereas only 40% of males react positively. A group of 20 people, 15 female and 5 male, was subjected to these circumstances, and the subjects were asked to describe their reactions on a written questionnaire. A response picked at random from the 20 was negative. What is the probability that it was that of a male?