You may use any computer program to help you solve these problems, check answers, etc.

**Problem 1.1**
Chapter 2 - Problem 8 in *Wireless Communications* by A. Goldsmith.

**Problem 1.2**
Chapter 2 - Problem 14 in *Wireless Communications* by A. Goldsmith.

**Problem 1.3**
Chapter 2 - Problem 21 in *Wireless Communications* by A. Goldsmith.