

Homework Set 5**EECS 401****Due: Monday, Feb. 14, 2000,**
in class before lecture begins.

Things to practice: Using and computing cdf's, pdf's and pmf's.

1. 3.25, p. 177
2. 3.34 (a) and (c), p. 178
3. 3.35, p. 178
4. 3.37, p. 178
5. 3.38, p. 178, just for $k = 0$ and 3 .
6. 3.40, p. 178. Insert the words "at the end of the day" after "The number of orders waiting".
7. 3.44, p. 179 just $P(X < m)$ and $P(|X - m| > k)$ for $k = 1, 3, 5$
8. 3.45, p. 179
9. Consider a random variable whose cdf is shown in Figure 3.1 on p. 175.
 - (a) Find its pdf.
 - (b) Find $\Pr(1/2 \leq X \leq 1.5)$ by integrating the pdf.