Chapter 8: problems 8.12-10, 8.10-4 (note: the Cauchy distribution function is $F(x) = \frac{1}{2} + \frac{1}{\pi} \tan^{-1} x$, see pages 206–207), 8.10-6.

The starred problems are for extra credit. Each problem is graded on the base of "4 points max".