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Math 152 – Fall 2008
HW # 11

8.8: 1, 2, 4
8.10: 18
9.1: 4, 5, 8, 9

1. Let's say we're watching taxis go by, and we're trying to decide if there are at least 4 per hour.

$$X_i \sim \text{Poisson}(\theta)$$
$$H_0 : \theta \leq 4$$
$$H_1 : \theta > 4$$

   Find the LRT for these hypotheses, assuming a sample of size n.