Reminders!

1. The grader misplaced the homework scores for the July 21 assignment (the assignment with the table of housing prices). Please re-submit this assignment to have your score recorded.

2. The third (and last) computer project is due Tuesday, August 11.

Practice Problems. Work out the solutions to the following problems in a notebook and check your answers in the back of your text book. YOU WILL NOT TURN THESE PROBLEMS IN for a grade. They are only to help you study. Note however that these problems may appear verbatim on the weekly tests.

4.73, 4.75, 4.81, 4.82

Homework to turn in Monday, August 10 (at the start of class)

1. Suppose that $X$ has a probability density given by

$$p(x) = \begin{cases} \frac{k}{x^4(5-x)^2} & \text{for } 0 \leq x \leq 5 \\ 0 & \text{otherwise.} \end{cases}$$

Find $k$ and then find the expected value and variance. Hint: Change variables to turn this into a beta distribution. Don’t forget that the variable change will have an effect on the mean and variance.

2. Do problem 4.74 from your book.

3. Do problem 4.76 from your book.

4. Do problem 4.81 but use $\gamma = 3$ and $\theta = 2$.

5. Do problem 4.82 but use $\gamma = 1.4$ and $\theta = 0.8$. 