18.05. Practice test 2.

(1) page 280, No. 5

(2) page 291, No. 11

(3) page 354, No. 10

(4) Suppose that $X_1, \ldots, X_n$ form a random sample from a distribution with p.d.f.

$$f(x|\theta) = \begin{cases} e^{\theta - x}, & x \geq \theta \\ 0, & x < \theta. \end{cases}$$

Find the MLE of the unknown parameter θ.

(5) page 415, No. 7. (Also compute 90% confidence interval for σ^2.)

Extra practice problems:

page 196, No. 9;

page 346, No. 19;

page 396, No. 10;

page 409, No. 3.

page 415, No. 3.

Go over psets 5, 6, 7 and examples in class.