STAT 270 Lecture 22
Fall 2015
30 October 2015

- I covered up to slide 58 of "Continuous distributions".

- We have covered up the end of Section 5.2 in the text.

- Problems from the text: 5.18, 5.19 (particularly part b), 5.20, 5.21.

- Handwritten slides.

- Key jargon, ideas:

    - Salk vaccine trial illustrates significance testing.

    - Suppose the vaccine does nothing.

    - Then number of cases in treatment group is like Binomial$(n, 1/2)$ where n is number of kids who were going to be diagnosed with polio anyway.

    - Judge how unreasonable that "suppose" was by computing

$$P(X \leq 56)$$

    for a Binomial$(198, 1/2)$ variable.

    - Make a normal approximation.

    - Get really tiny chance.

    - So drug works *or* something really unlikely happened with our 198 coin tosses – too unlikely to be believable.

    - You make a continuity correction for integer valued random variables.