

# Test #3 $\Rightarrow$ Virtual O.H. 7-8pm Tuesday

- 4:30pm - 6pm

- Ch. 9-10

- Questions on Exam

$\hookrightarrow$  44pts, 6 parts - Calculations, Interpret

- Excel  
- Ch. 9+10

2) 14 pts - Ch. 9

3) 12 pts - Ch. 9

4) 20 pts - 3 parts - Ch. 9+10

$\hookrightarrow$  Short answers mainly  
5) 10 pts - WGB.

- HWS problem ~~3~~ OR Example from book  $\rightarrow$  21

- Calculator

- Formula sheet

# What to study?

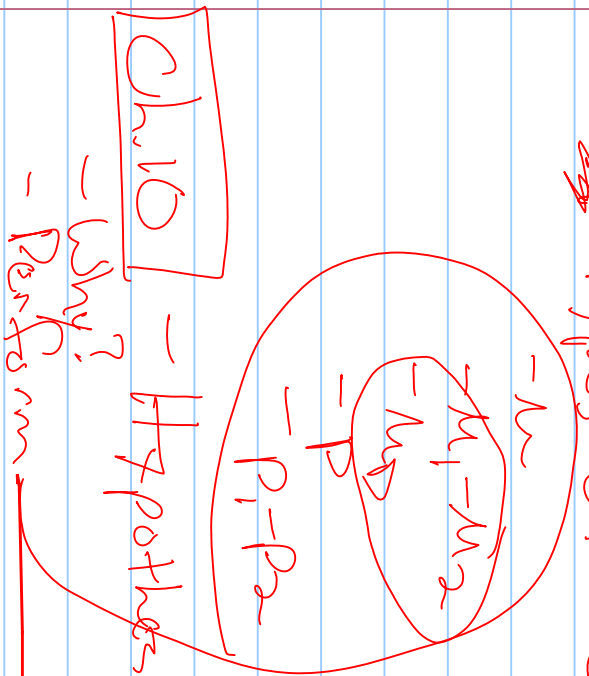
- 1 In-class notes
- 2 Project  $\rightarrow$  #2 + #5
- 3 HW problems
- 4 Book!

## Reviews

### Ch. 9

- unbiased Estimators
- Maximum likelihood Estimation
- Sample size needed to est  $p$ . or  $\mu$
- C.I.s
  - why?
  - Length
  - Interpretation

# ~~Types~~ Types of C.I.s



} When to use

- ① C.I.
- ② Test Stat.
- ③ P-value

- ~~Test~~ Type I + II errors

Questions?

$H_0: \mu \leq \mu_0$

$H_a: \mu > \mu_0$

$P(T > t)$

$\bar{X} + 2 \frac{\sigma}{\sqrt{n}}$

Why + over standard normal C.I.?

- C.I. for  $\mu$
- 1) What happens for all angles  $\alpha$ ?
  - 2) What is  $\sigma$ ?