

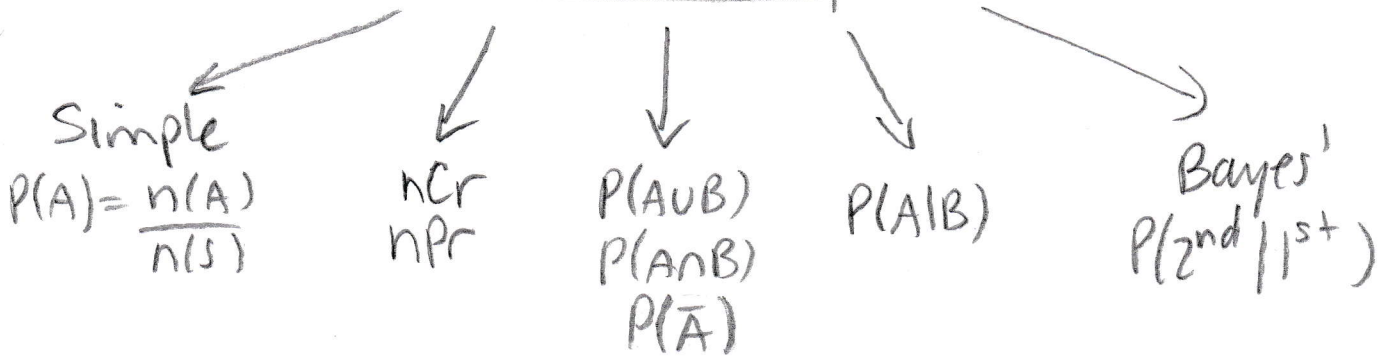
DISCRETE

μ σ

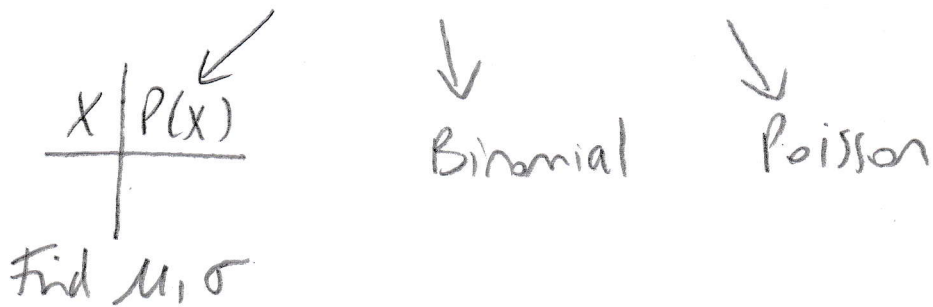
Tchebysheff

Linear Regression

Probability



Random Variables



Rank Sum Test

CONTINUOUS

X has $f(x) = \text{blah}$
Find $P(X \geq c)$
 $E(X)$
 σ

Exponential
 $f(x) = ke^{-kx}, x \geq 0$

Normal
use z -table

t -table

χ^2 -table

Approximating
Binomial
 $\mu = np$
 $\sigma = \sqrt{npq}$

Central
Limit
Theorem
 $P(\bar{x} > 72)$
 $P(\hat{p} < 0.03)$

Estimate μ
for small
samples

Estimate
 $\mu_1 - \mu_2$
for small
samples

Estimate
 σ^2 for
small
samples

Goodness
of Fit

Sample
Size

CI

UCB
LCB

Hypothesis
Tests

Type II
error

for μ
 $\mu_1 - \mu_2$
 p
 $p_1 - p_2$