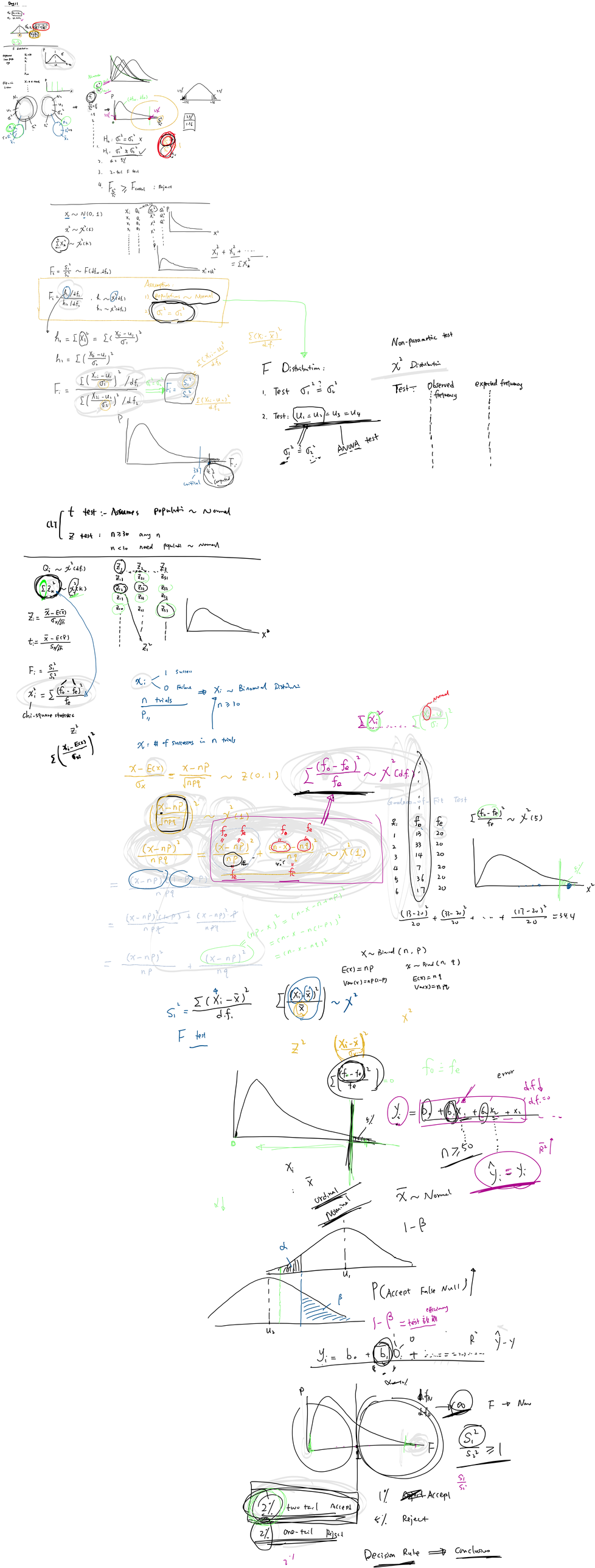

Day 11
F distribution
Normal
H0 : σ1² = σ2²
H1 : σ1² ≠ σ2²
2-tail F test
F Distribution:
1. Test σ1² ≟ σ2²
2. Test: U1 = U2 = U3 = U4
ANOVA test
Non-parametric test
χ² Distribution
Test :- Observed frequency
expected frequency
CLT
t test :- Assumes population ~ Normal
Z test : n ≥ 30 any n
n < 30 need population ~ Normal
Chi-square statistic
Goodness of Fit Test
Xi ~ Binomial Distribution
X ~ Binomial (n, P)
E(x) = np
Var(x) = npq
X ~ Poisson (n, q)
E(x) = nq
Var(x) = npq
F test
error
Ordinal
Nominal
Normal
P(Accept False Null)
1 - β = test for power
efficiency
Decision Rule ⟹ Conclusion
two tail Accept
one-tail Reject
Reject