Stat 305 - Section 7 - Quiz 3 Topic Outline

1. Special discrete random variables (Part II)

    (a) Binomial(n, p)

    (b) Geometric(p)

    (c) Poisson(λ)

2. Continuous random variables (Part III)

    (a) Probability density functions (pdf)

    (b) Cumulative distribution functions (cdf)

    (c) Normal quantiles

    (d) Expected value, variance, and standard deviation

    (e) Special continuous random variables:

        i. Exponential(α)

        ii. Normal(μ, σ^2)

3. Joint distributions and independence (Part IV)

    (a) Joint distributions (discrete random variables)

    (b) Marginal distributions (discrete random variables)

    (c) Conditional distributions (discrete random variables)

    (d) Independence (discrete random variables)

4. Functions of several random variables (Part IV)

    (a) Distributions of functions of random variables.

    (b) Expectations and variances of linear combinations.

    (c) The Central Limit Theorem