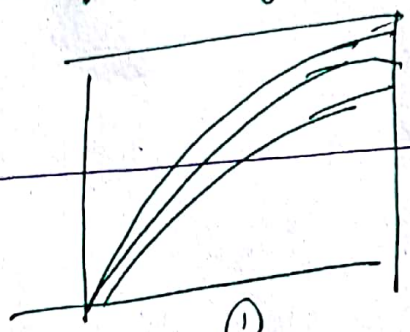
→ CDF(x)

↳ models →

Analytical distributions are often good models of more complex empirical distributions

① exp.
② normal
③ lognormal
④ Pareto

Check by plotting Normal probability plot



① CCDF : [1 − CDF(x)] → to check whether the given Distribution is following ~~a model~~ Analy ↳ a analytical model

Complementary Cumulative distribution function

② ICDF(p) → Giving the p value between 0 and 1 and finding the x values.

↳ Purpose: for generating Random numbers Based on a given CDF

↳ used for similations.

↳ Risk Analysis

→ optimization

③ exp distribution

$CDF(x) = 1 - e^{-\lambda x}$

Exercise 5.1, 5.4, 5.2, 5.3 } 5.6

5.5. → testing the model for mystery data

5.6 ↓ export the data to binfile