# Pareto Distribution   [NoN Gaussian Distribution]

An example power-law graph that demonstrates ranking of popularity. To the right is the long tail, and to the left are the few that dominate (also known as the 80–20 rule).

80-20%

Power law

Pareto Type I

Probability density function

$\alpha = \infty$
$\alpha = 3$
$\alpha = 2$
$\alpha = 1$

$\alpha \uparrow\uparrow$

log Normal

Box Cox Transformation
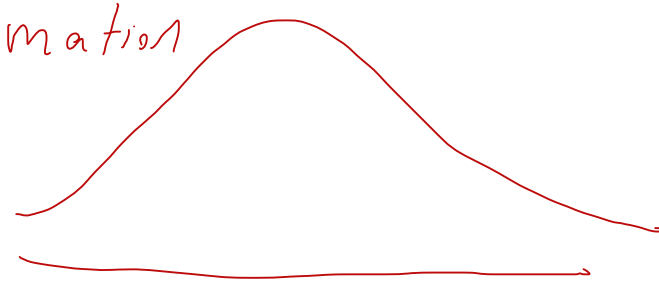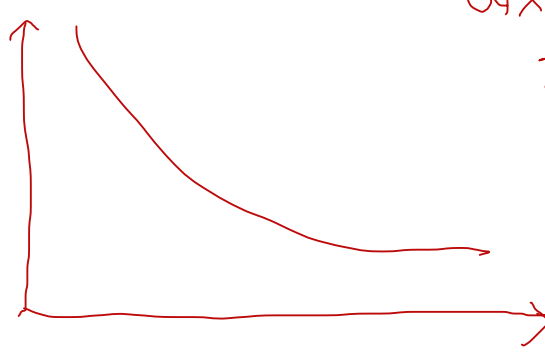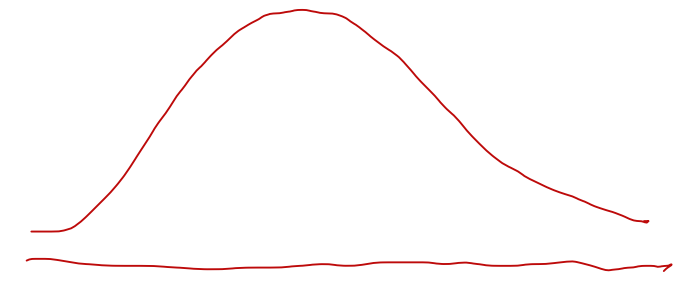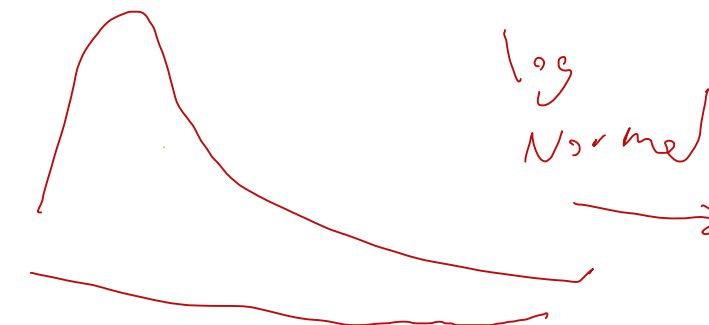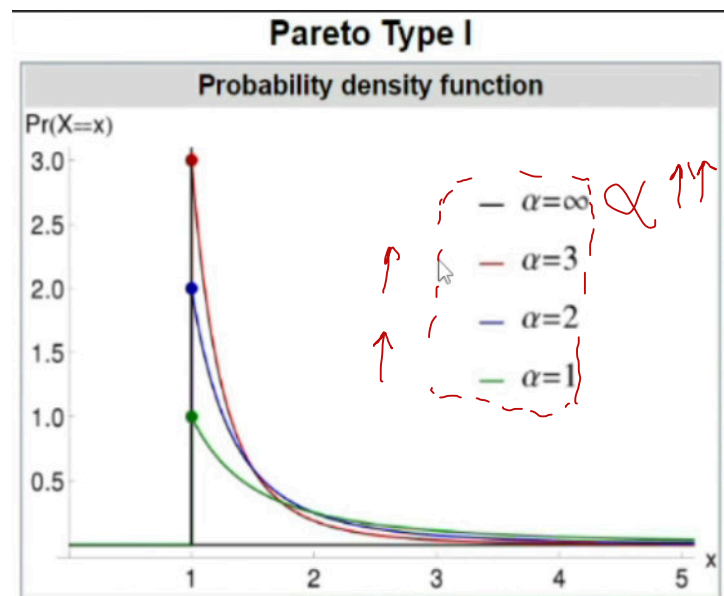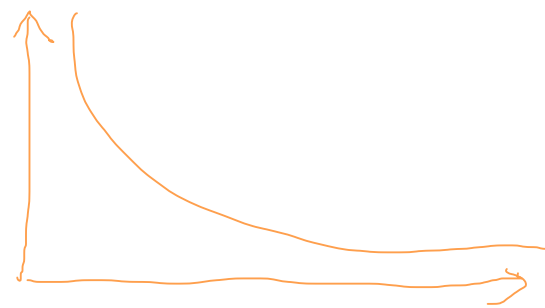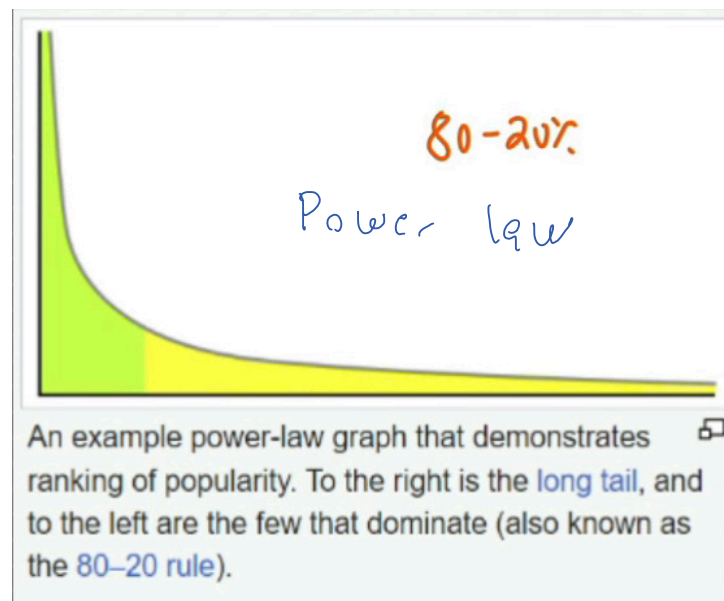
Example

IT Industry

1) 80% of the entire project is done by 20% of the team

2) 80% of defects can be solved if we solve 20% of the defects.