$$(x) = \underbrace{e^{x}}_{(+e^{x})} \approx N(0,1) \text{ but with thise tails}$$

$$6 > 1$$

$$= \underbrace{(x)}_{(+e^{x})} \approx N(0,1) \text{ but with thise tails}$$

$$6 > 1$$

$$= \underbrace{(x)}_{(+e^{x})} \approx 1.8 > 1.$$

$$= \underbrace{(x)}_{(+e^{x})} \approx 1.$$

$$=$$

function called the "logistic function". It has three parameters (maximum value), k (steepness), mu (center) and it is:
$$L(x) := \frac{L}{1 + e^{-k(x-x)}} \qquad \frac{L}{1 + e^{-x}} \cdot \frac{e^x}{e^x} = \frac{e^x}{e^{x+1}} \quad \text{(standard)}$$

$$C(x) := \frac{L}{1 + e^{-k(x-x)}} \qquad C(x) := \frac{L}{1 + e^{-x}} \cdot \frac{e^x}{e^x} = \frac{e^x}{e^x} \quad \text{(standard)}$$

$$C(x) := \frac{L}{1 + e^{-x}} \cdot \frac{e^x}{e^x} = \frac{e^x}{e^x} \quad \text{(standard)}$$

$$C(x) := \frac{L}{1 + e^{-x}} \cdot \frac{e^x}{e^x} = \frac{e^x}{e^x} \quad \text{(standard)}$$

$$L = \frac{L}{1 + e^{-k(x-x_0)}} = \frac{L}{1 + e^{-k(x-x_0)}} = \frac{e^x}{1 + e^{-x}} = \frac{e^x}{e^x} = \frac{e^x}{e^x + 1}$$
 (standard logistic function)
$$\frac{1}{1 + e^{-x}} = \frac{e^x}{e^x} = \frac{e^x}{e^x + 1} = \frac{e^x}{1 + e^x} =$$

Q[X,304.]=6

However, if X is a continuous rv with "contiguous support" e.g. [0, 10], [0, infinity), all real numbers, etc and not something like [0,1] union [2,3]. In the latter case,
$$F(x)$$
 is flat between [1,2] which means it's not invertible. In the former case, $F(x)$ is invertible.
$$Q[X] = F^{-1}(Q)$$
, and the inverse CDF is called appropriately, the "quantile function".

Quantile functions are not usually available in closed form since CDF's aren't even usually available in closed.

 $\frac{\lambda}{y} \left(\frac{y}{k} \right)^{-\lambda} \underline{\Lambda}_{y \in [k, \infty)} = \text{Poreso } \underline{\Gamma} \left(k, \lambda \right)$

Italians owned 80% of the land (i.e. the wealth). This is known as the "Pareto Principle" and it corresponds to the ParetoI(1, 1.161) distribution. Further, the Pareto distribution is a waiting time / survival time model. It's used for [see wikipedia if you're interested]. Wealth, music talent, number of patents, ...

$$f_{0}(J) = \int f_{x}^{old}(x) f_{z}^{old}(1-x) \int_{1-x}^{old}(1-x) \int_{1$$