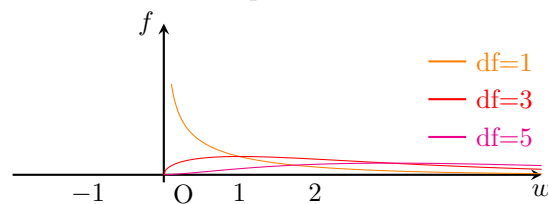- The value of the probability density function of the chi-square distribution at at $w = 1.0$ and df= 5 is 0.08066, more precisely, 0.080663970579295.

  – scipy.stats.chi2(df=5).pdf(1.0) gives 0.0806569081730478.

- The value of the cumurative distribution function of the chi-square distribution at at $w = 1.0$ and df= 5 is 0.037441537799554.

  – scipy.stats.chi2(df=5).cdf(1.0) gives 0.03743422675270361.

- The quantile at $p = 0.5$ of the chi-square distribution with df= 5 is 4.3514999999998.

  – scipy.stats.chi2(df=5).ppf(0.5) gives 4.351460191095526.

- The value the probability density function of the chi-square distribution at $w = -1.0$ at df= 5 is nan.

  – scipy.stats.chi2(df=5).pdf(-1.0) gives 0.0.

- The value of the cumurative distribution function of the chi-square distribution at at $w = -1.0$ and df= 5 is 0.

  – scipy.stats.chi2(df=5)cdf(-1.0) gives 0.0.

- The quantile at $p = -1.0$ of the chi-square distribution with df= 5, using `tex.print(stats.qChisq(-1.0,5))`, results in "Target Area must be $>$ 0" LaTeX compile error.

  – scipy.stats.chi2(df=5).ppf(-1.0) gives nan.

Plots with draw-tikzpicture

Plots with addplot-axis-tikzpicture do not work.