χ^2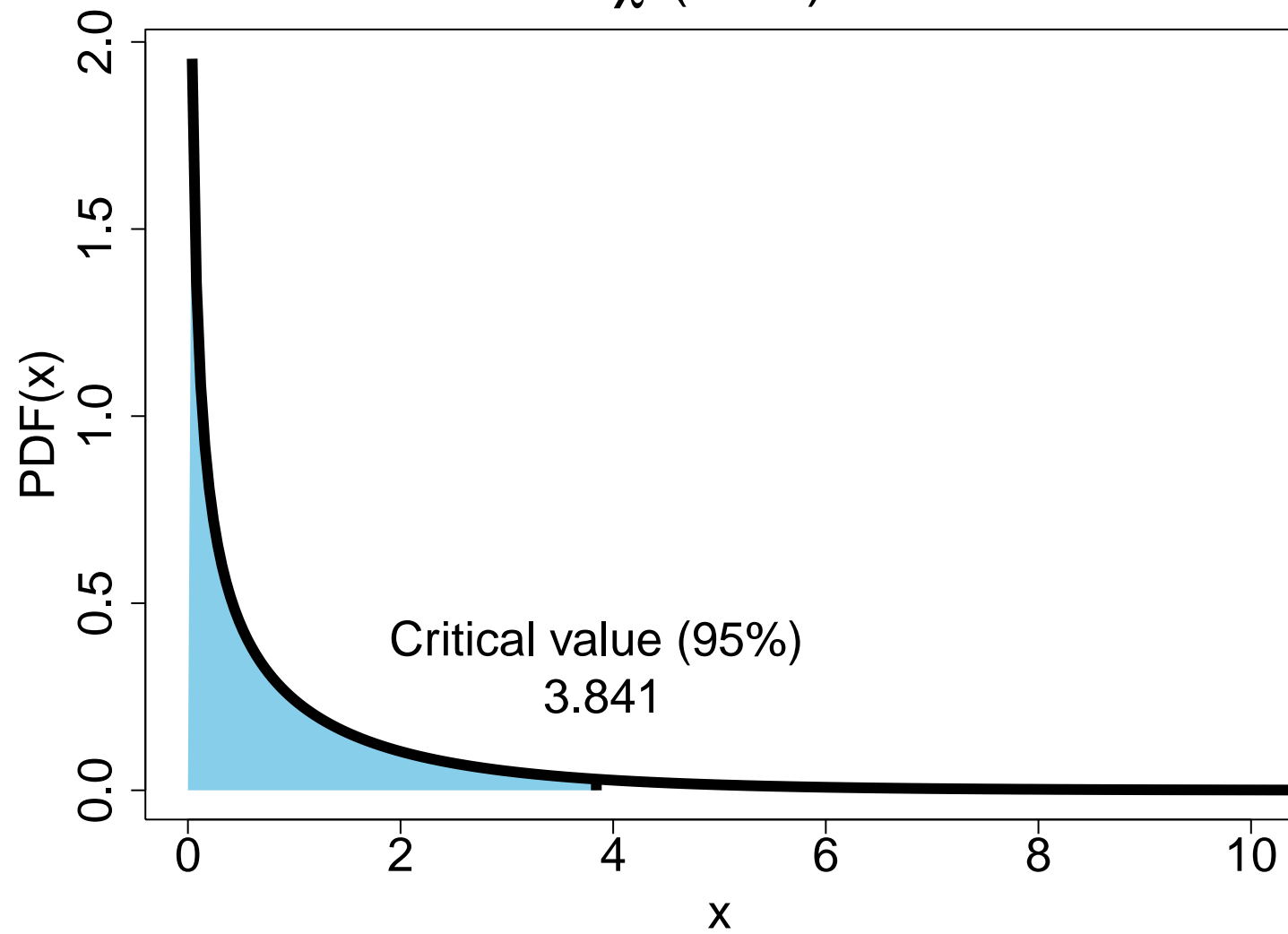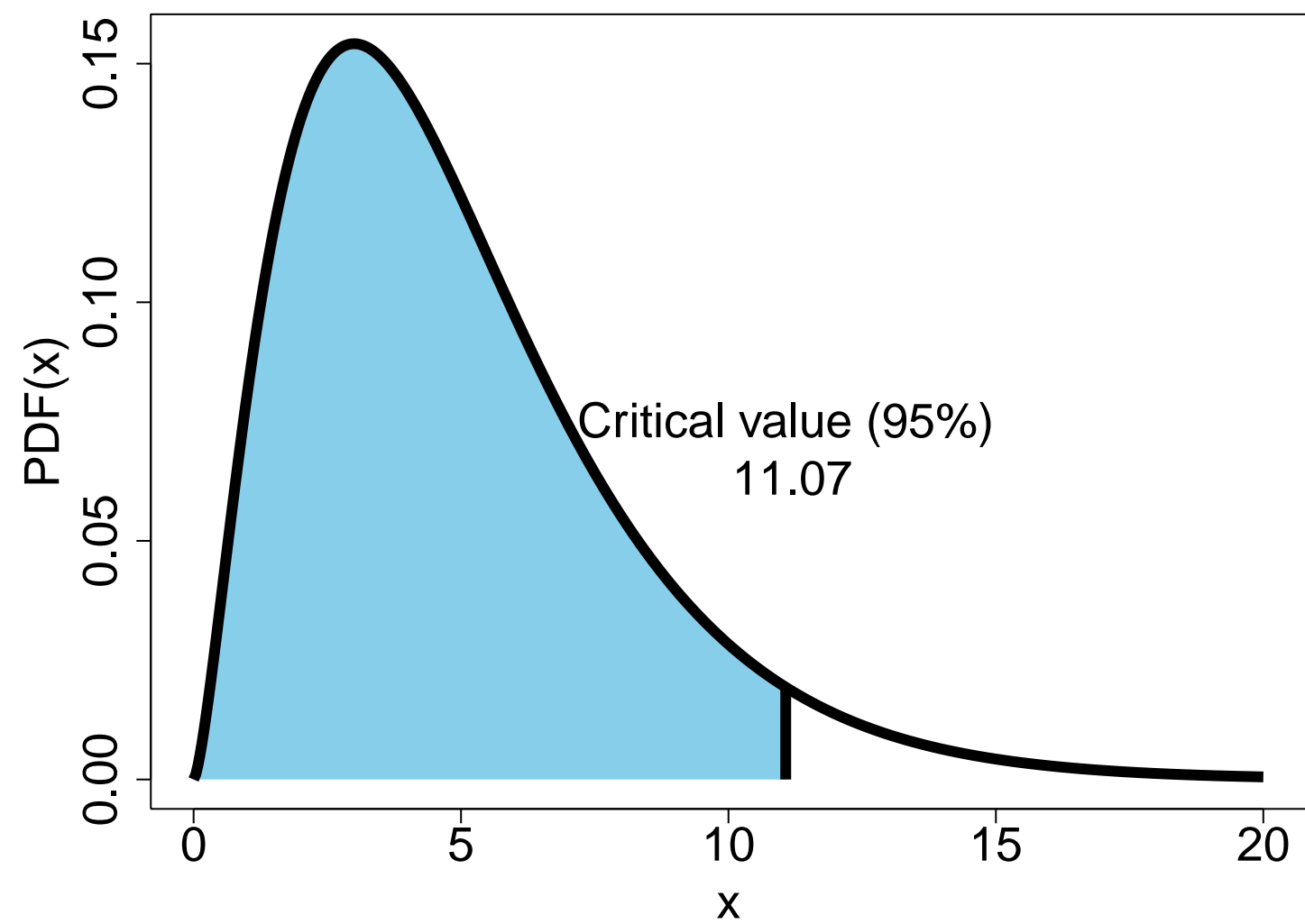 Distributions and critical values