

χ^2 Distribution

Using Table 6 from the Statistical Formulae and Tables booklet

1. Find x such that:

- a. $P(\chi^2_9 \leq x) = 0.01$
- b. $P(\chi^2_2 \leq x) = 0.1$
- c. $P(\chi^2_7 \leq x) = 0.99$
- d. $P(\chi^2_3 \leq x) = 0.975$

2. Find y such that:

- a. $P(\chi^2_8 > x) = 0.995$
- b. $P(\chi^2_5 > x) = 0.025$
- c. $P(\chi^2_6 > x) = 0.05$
- d. $P(\chi^2_4 > x) = 0.99$

3. Find:

- a. $P(\chi^2_2 \leq 0.051)$
- b. $P(\chi^2_4 \leq 7.779)$
- c. $P(\chi^2_7 \leq 2.833)$
- d. $P(\chi^2_9 \leq 16.919)$

4. Find:

- a. $P(0.115 \leq \chi^2_3 \leq 9.348)$
- b. $P(1.610 \leq \chi^2_5 \leq 15.086)$
- c. $P(1.635 \leq \chi^2_6 \leq 14.449)$
- d. $P(2.733 \leq \chi^2_8 \leq 13.362)$