

In [2]:

연습문제 10 p214

from scipy.stats import chi2

df = [4, 19, 25]

p = [0.99, 0.025, 0.045]

c = [37.652]

x = chi2.ppf(1 - p[0], df[0])

print(f"P($X^2 > X_{\alpha}^2$) : {round((x), 3)}")

x = chi2.ppf(1 - p[1], df[1])

print(f"P($X^2 > X_{\alpha}^2$) : {round((x), 3)}")

3번 연습

$x = 1 - \text{abs}(\text{chi2.cdf}(p[2], \text{df}[2]) - \text{chi2.cdf}(c[0], \text{df}[2]))$

$\text{print}(f"\backslash n P(\{c[0]\}(X_{0.05}^2) < X^2 < X_{\alpha}^2) : \{\text{round}((x), 4)\})"$)

Xa2 = chi2.ppf(1 - p[2], df[2])

P = chi2.cdf(Xa2, df[2]) - chi2.cdf(c[0], df[2])

print(f"P($\{c\} < X^2 < \{X_{\alpha}^2\}$) = $\{P\}$ ")

P($X^2 > X_{\alpha}^2$) : 0.297

P($X^2 > X_{\alpha}^2$) : 32.852

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