

In [8]:

# 연습문제 11 p215

from scipy.stats import chi2

n = [31]

sigma2 = [5]

alpha = [0.10, 0.95]

dof = n[0] - 1

upper\_bound = chi2.ppf(1 - alpha[0], dof)

C = upper\_bound \* sigma2[0] / dof

print(f"P(S^2 <= C)=0.90 , C : {round((C), 2)}")

upper\_bound2 = chi2.ppf(1 - alpha[1], dof)

C = upper\_bound2 \* sigma2[0] / dof

print(f"P(S^2 <= C)=0.95 , C : {round((C), 2)}")

P(S^2 <= C)=0.90 , C : 6.71

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