In [13]:
 # 연습문제 9 p214
from scipy.stats **import** chi2

df = [19, 5, 10, 18]
x = [30.14, 5, 3.24, 3.49]
c = [15.99, 17.53]

p_value = 1 **-** chi2**.**cdf(x[0], df[0])
print(f'P(X^2 > {x[0]}) = {round((p_value), 2)}')

p_value = 1 **-** chi2**.**cdf(x[1], df[1])
print(f'P(X^2 > {x[1]}) = {round((p_value), 3)}')

p = chi2**.**cdf(c[0], df[2]) **-** chi2**.**cdf(x[2], df[2])
print(f'P({x[2]} < X^2 < {c[0]}) : {round((p), 3)}')

p = chi2**.**cdf(c[1], df[3]) **-** chi2**.**cdf(x[3], df[3])
print(f'P({x[3]} < X^2 < {c[1]}) : {round((p), 3)}')

P(X^2 > 30.14) = 0.05
P(X^2 > 5) = 0.416
P(3.24 < X^2 < 15.99) : 0.875

Loading [MathJax]/jax/output/CommonHTML/fonts/TeX/fontdata.js