In [3]:

*#* 연습문제 *2 /* 예제*(7.5), p223*

**import** math

**from** scipy.stats **import** norm

n1 **=** 125

p1 **=** 0.84

n2 **=** 150

p2 **=** 0.72

alpha **=** 0.1

phat1 **=** p1 phat2 **=** p2

phat **=** (n1 **\*** phat1 **+** n2 **\*** phat2) **/** (n1 **+** n2) z **=** norm**.**ppf(1 **-** alpha **/** 2)

se **=** math**.**sqrt(phat **\*** (1 **-** phat) **\*** (1 **/** n1 **+** 1 **/** n2))

ci\_low **=** (phat1 **-** phat2) **-** z **\*** se ci\_high **=** (phat1 **-** phat2) **+** z **\*** se

diff **=** phat1 **-** phat2 margin\_of\_error **=** z **\*** se

print(f'차이: {diff:.2f} ± {margin\_of\_error:.3f}')

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차이: 0.12 ± 0.083