

```

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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