Section 8.7 — Example

Problem: (Exercise 8.61) In a study to compare the effects of two pain relievers it was found that of the $n_1 = 200$ randomly selected individuals instructed to use the first pain reliever, 93% indicated that it relieved their pain. Of $n_2 = 450$ randomly selected individuals instructed to use the second pain reliever, 96% indicated that it relieved their pain.

1. Find a 99% confidence interval for the difference in the proportions experiencing relief from pain for these two pain relievers.

2. Based on the confidence interval above, is there sufficient evidence to indicate a difference in the proportions experiencing relief for the two pain relievers? Explain.