The University of Portland Donald P. Shiley School of Engineering

EGR361 Analysis of Engineering Data

HOMEWORK 8

Assigned:	Monday, April 24, 2017
Due:	Friday, April 28, 2017
Final Exam:	Wednesday, May 3, 2017, 13:30-15:30 (closed-book, 3 crib-
	sheets, calculator)

Problems:

- 1) Text, 4-68 (page 204)
- 2) Text, 4-69* (page 205)
- 3) Text, 5-5 (a, b) (page 238)
- 4) Text, 5-19 (page 250); Assume α=0.05
- 5) Text, 5-24* (a) (page 251); Assume α=0.05
- 6) Text, 5-44 (page 258); Assume α=0.05
- 7) Text, 5-66* (page 271)
- 8) Text, 5-70* (page 271)
- 9) In a recent double-blind study, 7 of 8,500 people vaccinated against a certain disease later developed the disease, while 18 of 10,000 people vaccinated with a placebo later developed the disease. Test the claim that the vaccine is effective in lowering the incidence of the disease. Use a significance level of 0.02. Calculate the P-value. Construct a 95% Confidence Interval on the difference in the disease rates in the two populations.

*Optional (No extra credit)