

Quiz #9

Please, write clearly and justify all your steps, to get proper credit for your work. If you use R, you must report the commands you use with all relevant parameters.

(1) Two rubber compounds were tested for tensile strength and the following values were found

A : 32, 35, 31, 33, 32, 30, 33, 36, 32

B : 33, 35, 36, 37, 35, 34

- (a) Compute the sample means of the 2 populations.
- (b) Compute the sample variances of the 2 populations.
- (c) Assuming that the two populations are normally distributed and have the same variance, find a 99% confidence interval for the difference of the two population means $\mu_A - \mu_B$.