1. A soft-drink machine is regulated so that the amount of drink dispensed is approximately normally distributed with a standard deviation equal to 0.53 ounces. Find a 99% confidence interval for the mean of all drinks dispensed by this machine if a random sample of 36 drinks has an average content of 7.94 ounces.
2. (7.94-qnorm(1.99/2)\*0.53, 7.94+qnorm(1.99/2)\*0.53)
3. (7.94-qnorm(1.99/2)\*0.53/, 7.94+qnorm(1.99/2)\*0.53/))
4. (7.94-qnorm(0.99/2)\*0.53/, 7.94+qnorm(0.99/2)\*0.53/))
5. (7.94-qt(0.99/2)\*0.53/, 7.94+qt(0.99/2)\*0.53/))

Choose a for Question 2-5.