

Homework 7 Answers

BSTA 550

Questions

1. Not given.
2. (a) $E(\bar{X}) = \mu$
(b) $\text{Var}(\bar{X}) = \frac{\sigma^2}{n}$
3. See notes for how I start this problem!
4. (a) $E(V) = 87850 \text{ ft}^3$, $\text{Var}(V) = 19100116 (\text{ft}^3)^2$
(b) Expected value correct, variance incorrect