

# 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