

Homework 5 Answers

BSTA 550

Questions

1. Not given
2. $f_Z(z) = nF_X(z)^{n-1}f_X(z)$
3.
 - (b) $P(X < Y) = 0.099995$
 - (d) $f_Z(z) = \frac{11 - 2z}{5}e^{-2z}$ for $0 \leq z \leq 5$
4. 2 cases: when $0 < z < 1$ and $1 \leq z \leq 2$