BONUS Week 9 Homework

(I) This is a preview of the published version of the quiz

Started: Jul 2 at 7:54am

Quiz Instructions

Question 1 1 pts

(Lesson 7.5: Inverse Transform --- Empirical Distributions.) BONUS: Consider four observations from some unknown distribution,

 $X_1=1.5,\,X_2=-3.7,\,X_3=2.7$, and $X_4=0.6$. What is the fourth order statistic, which we denoted by $X_{(4)}$ in class?

$$\bigcirc \text{ b. -3.7} \qquad \qquad \times_{(1)} \leq \times_{(2)} \leq \times_{(3)} \leq \times_{(4)}$$

$$\%$$
 c. 2.7 $\chi_{(4)} = 2.7$ being the larges t.

Od. 0.6



(Lesson 7.8: Acceptance-Rejection --- Proof.) BONUS: Which of the following are true?

 \bigcirc a. The closer the majorizing function t(x) is to the true p.d.f. f(x), the more efficient the A-R algorithm is.

b.
$$h(y) = t(y)/\int_{\mathbb{R}} t(x) dx$$
 is itself a p.d.f. $h(y)$ is a pat where $h(y)$ is $t(y)$ divided by c. Where $t(y)$ is the condition of $t(y)$ should be "easy" to generate.

 \bigcirc c. Random Variates from h(y) should be "easy" to generate.

d. Dave is the best teacher ever!

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o e. All of the above.