

Classwork

Consider the random variable X with a probability density function of

$$f(x) = \frac{1}{x \ln(1.5)}$$

for $4 \leq x \leq 6$ and $f(x) = 0$ elsewhere.

- (a) Calculate the median.
- (b) Find the upper and lower quartiles of this random variable.
- (c) What is the interquartile range?