

Math 152 – Spring 2016 – In-class Group Assignment 15 – April 11, 2016.

Consider the function given by

$$f(x) = \beta - \frac{x}{4} \quad \text{for } 1 \leq x \leq 2 \quad \text{and} \quad f(x) = 0 \quad \text{otherwise.}$$

Determine the value of  $\beta$  so that this function is a probability density function on the interval  $[1,2]$ .

Find the mean of the probability density function you found.

Find the median of the probability density function you found.