



BE the probability density function

A bunch of probability density functions have lost track of their probabilities.

Your job is to play like you're the probability density function and work out the probability between the specified ranges. Draw a sketch if you think that will help.

1. $f(x) = 0.05$ where $0 < x < 20$

Find $P(X < 5)$

2. $f(x) = 1$ where $0 < x < 1$

Find $P(X < 0.5)$

3. $f(x) = 1$ where $0 < x < 1$

Find $P(X > 2)$

4. $f(x) = 0.1 - 0.005x$ where $0 < x < 20$

Find $P(X > 5)$