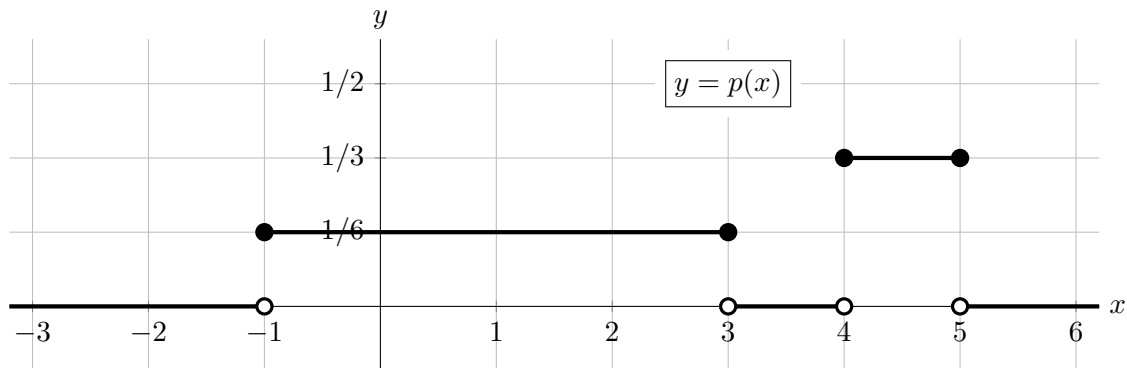


2. [10 points] The graph of a probability density function (pdf) $p(x)$ is shown below.



Note: Your answers to **a.** and **b.** should not include integral signs, variables, or function names.

a. [3 points] Find the median value of a quantity with pdf $p(x)$.

Answer: The median value is _____

b. [3 points] Find the mean value of a quantity with pdf $p(x)$.

Answer: The mean value is _____

c. [4 points] If $c(x)$ is the cumulative distribution function corresponding to the pdf function $p(x)$ above, sketch a graph of $y = c(x)$ on the axes below. Pay careful attention to where your graph is differentiable, increasing/decreasing, and concave up/concave down.

