## MATH 5010 - Quiz

Name:
7.38 The random variables $X$ and $Y$ have a joint density function given by

$$
f(x, y)= \begin{cases}\frac{2}{x} e^{-2 x} & 0<y<x \\ 0 & \text { otherwise }\end{cases}
$$

Find the expected value of $Y$.

