Group $\qquad$ Names

## Group Quiz for Section 3.3

1. Recall the example from last time: you have an insurance policy with a $\$ 500$ deductible. The amount $Y$ of your bill is distributed uniformly in [100, 1500]. The amount $X$ that you actually pay is

$$
X=g(Y)= \begin{cases}Y, & Y \leq 500 \\ 500, & Y>500\end{cases}
$$

What do you pay on average; i.e., what is $\mathbb{E}[X]$ ?

