(1) Suppose that $X$ is a Geometric random variable with $p=1 / 3$

Find formulas for $\mathrm{EX}, \operatorname{VarX}$, and $\mathrm{P}(2<\mathrm{X}<5)$
(2) Suppose that $X$ is a continuous random variable with $f(x)=\exp (1-x)$ for $x>1$ and 0 otherwise. Find formulas for $E X, \operatorname{VarX}$, and $P(2<X<5)$

