$\begin{array}{c} {\rm Quiz\ Problem\ 8} \\ {\rm Due\ Oct.\ 28st,\ 11:59\ pm\ EST} \end{array}$

-		
Pro	h	lem.

Let X be a random variable with moment generating function

$$M(t) = \frac{p}{1 - (1 - p)e^t}$$
 for $t < -log(1 - p)$.

What is Va	$\operatorname{ar}(X)$?			