## $\begin{array}{c} {\rm Quiz\ Problem\ 9} \\ {\rm Due\ Nov.\ 4th,\ 11:59\ pm\ EST} \end{array}$

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Р	$\mathbf{r}$	h	lem

Let  $X \sim Gamma(a, \lambda)$  so that

$$f(x) = \frac{\lambda \exp(-\lambda x)(\lambda x)^{a-1}}{\Gamma(a)}$$

What is the MGF of X?

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