## Quiz Problem 7Due Oct. 21st, 11:59 pm EST

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Pro	nı	em

Let X be a continuous random variable with probability density function given by

$$f(x)=\begin{cases} \theta x^{\theta-1} & 0\leq x\leq 1,\\ 0, & \text{else}. \end{cases}$$
 For what value of  $\theta$  is the population variance of  $X$  maximized?

