## STAT 472

## Fall 2018

## Quiz 2

September 5, 2018

1. You are given that $\mu_{50+t}=0.01+0.004 t$.

Calculate ${ }_{3 \mid 4} q_{50}$.
2. You are given that ${ }_{t} p_{95}=1-0.04 t^{2}$ for $0 \leq t \leq 5$

Calculate $\operatorname{Var}\left[K_{95}\right]$.

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## Quiz 2

September 5, 2018

1. You are given that $S_{0}(x)=\frac{8100-x^{2}}{8100}$ for $0 \leq x \leq 90$.

Calculate ${ }_{314} q_{50}$
2. You are given that ${ }_{t} q_{75}=\frac{t^{2}+t}{240}$ for $0 \leq t \leq 15$.

Calculate $\operatorname{Var}\left[T_{75}\right]$

