In general,
$$X \sim \chi_{\gamma}^{2} = Gamma\left(\frac{1}{2}, \frac{1}{2}\right)$$

$$E(X) = \frac{d}{\lambda} = \frac{1/2}{1/2} = \lambda$$

$$Var(X) = \frac{d}{\lambda^{2}} = \frac{1/2}{1/4} = 2\lambda$$

Find
$$k = 5.t$$
. $P(X > k) = 0.025$, $V = 10$
 $k = 20.48$