

## Quiz Chapter 10 & 11 — Question One

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$$\begin{aligned}k &= \frac{.002}{[.08]^2} \\&= .3125 \left[ \frac{1}{\text{M s}} \right] \\ \text{rate} &= .3125 \cdot [.02]^2 \\&= .000125 \left[ \frac{\text{M}}{\text{s}} \right]\end{aligned}\tag{1}$$