1 Quiz: Power Series Coefficients A

Use the formula for a Taylor series:

$$f(z) = \sum_{n=0}^{\infty} \frac{1}{n!} \frac{d^n f(a)}{dz^n} (z-a)^n$$

to find the series expansion for $f(z) = e^{-kz}$ to second order around $z = 3$.