

$$e^x \approx 1 + x + \frac{x^2}{2}$$

$$e^{0.01} \approx 1 + 0.01 + \frac{0.01^2}{2} = 1.01005$$

$$e^{0.1} \approx 1 + 0.1 + \frac{0.1^2}{2} = 1.104$$

$$e \approx 1 + 1 + \frac{1}{2} = 2.5$$