

QUIZ 8

1. (3 points) Write down the MacLaurin series for e^{2x} .

2. (3 points) Find the Taylor series for $\frac{1}{2-x}$ at $x = 1$ and its radius of convergence.

3. (4 points) Find a closed-form expression for $\sum_{n=1}^{\infty} nx^n$.