FULL NAME IN CAPITAL LETTERS:

- Turn off and put away all mobile phones, computers, iPods, etc.
- This is a closed book quiz. No calculators. No formula sheets. No questions. No textbooks or additional materials.
- Hand in the quiz in at most 10 minutes.
- Show all your work in the space provided.
- There is only one problem and it is worth 5 points.

Solve the initial value problem

\[
\frac{dy}{dx} = x^4 + e^{2x}, \quad y(0) = 1.
\]