Name: _____

Student ID: _____

Quiz 11

Question 1. *(4 marks)* Evaluate 2024^{59} expressing your answer in scientific notation.

Question 2. *(6 marks)* Solve for x (round to 3 decimal places):

(a) $7^{3x+5} = 2 \cdot 5^x$

(b) $\frac{1}{2}\log(x-2) + \log 3 = 1$