

Problem 1 (4 points): Solve for x if $x^{18} - 2 = 216$. Express your answer both as an exact quantity and as a decimal rounded to four decimal places.

Problem 2 (4 points): [GH 3.1.24] Solve for z if $1 + 7^{9z} = 6$. Express your answer both as an exact quantity and as a decimal rounded to four decimal places.

Problem 3 (2 points): [GH 3.1.28] Solve for t if $57.5 = \frac{(1.003)^{12t} - 1}{.003}$. Express your answer both as an exact quantity and as a decimal rounded to four decimal places.