

Name: _____

MATH 101

Fall 2021

HW 18: Due 11/23

*“There’s two positions in snowboarding:
one is looking cool and the other is
dead!”*

–Eddie Izzard

Problem 1. (10pt) Solve the equation $2(4^{2x}) = 8$ using logarithms.

Problem 2. (10pt) Solve the equation $6(9^{x-1}) = 5$ using logarithms.

Problem 3. (10pt) Solve the equation $\log_2(x + 5) = 4$.

Problem 4. (10pt) Solve the equation $\log_{10}(x+2) + \log_{10}(x+5) = 1$. Be sure to check that all your solutions are valid.