

Name: _____

MATH 101

Fall 2022

HW 21: Due 12/05

*“Don’t judge each day by the harvest you
reap but by the seeds that you plant.”*

–Robert Louis Stevenson

Problem 1. (10pt) Solve the following quadratic equation:

$$x^2 - 18 = 0$$

Problem 2. (10pt) Use completing the square to solve the following quadratic equation:

$$2x^2 = 5x + 3$$

Problem 3. (10pt) Use the discriminant of $f(x) = x^2 - 10x + 19$ to explain why there are no ‘nice’ solutions to $f(x) = 0$. Then use the quadratic formula to find the solutions to $f(x) = 0$.