Name: _____

MATH 101

Spring 2022

HW 10: Due 04/12

"Algebra is the metaphysics of arithmetic."

– John Ray

Problem 1. (10pt) Use completing the square to solve the following equation:

$$x(2x + 7) = 15$$

Problem 2. (10pt) Use factoring to solve the following equation:

$$2x = 80 - x^2$$

Problem 3. (10pt) Use the quadratic equation to solve the following equation:

$$2x^2 - 1 = 2x$$

Problem 4. (10pt) Use the quadratic formula to factor $280x^2 + 6x - 315$.