Name:	"Algebra is the metaphysics of arithmetic."
MATH 101	
Spring 2022	
HW 10: Due 04/12	−John Ray

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

$$x(3x - 7) = 6$$

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

$$3x = 54 - x^2$$

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

$$9x^2 + 23 = 30x$$

Problem 4. (10pt) Use the quadratic formula to factor $432x^2 + 642x - 315$.