

Name: _____

MATH 101

Spring 2024

HW 19: Due 04/22

“A million dollars isn’t cool. You know what’s cool? A billion dollars.”

— Sean Parker, The Social Network

Problem 1. (10pts) Showing all your work, factor the following quadratic expression:

$$2x^2 - 5x - 3$$

Problem 2. (10pts) Use the quadratic formula to factor the following polynomial:

$$253x^2 - 7x - 98$$

Problem 3. (10pts) Find all the real zeros of the following polynomial:

$$x^5 - 9x$$

Problem 4. (10pts) Showing all your work, solve the following equation:

$$\frac{x+1}{x-2} = \frac{x}{x-4}$$