

Name: _____

MATH 104

Spring 2023

HW 10: Due 05/04

*“If I were again beginning my studies, I
would follow the advice of Plato and
start with mathematics.”*

– Galileo Galilei

Problem 1. (10pt) Simplify the following expression as completely as possible:

$$\frac{\frac{x^2 + 2x - 3}{x^2 - x - 20}}{\frac{x^2 + 5x + 6}{x^2 - 6x + 5}}$$

Problem 2. (10pt) Find the zeros, vertical asymptotes, horizontal asymptotes, and slant asymptotes for the following:

$$\frac{(x-1)(x+8)(x-9)}{x(x-9)}$$