

MATH 31 - Calculus. Homework 2. Due Th. 09/16/2026. Professor Luis Fernández

NAME: _____

Do not write your answers here.

Write your answers in other sheets and **STAPLE them to this one.**

1. Stewart 9th edition, early transcendentals, Exercise 3 of section 2.5.
2. Stewart 9th edition, early transcendentals, Exercise 24 of section 2.6.
3. Find the value of a that makes f continuous everywhere.

$$f(x) = \begin{cases} \frac{x^2 - 4}{x - 2} & \text{if } x < 2 \\ ax^2 - 4x + 3 & \text{if } 2 \leq x < 3 \end{cases}$$