Name: _____

Quiz 17 ♡

MATH 200

November 7, 2022

1. (10 points) Find the global extrema of the function $f(x) = 3x + \dfrac{75}{x} + 10$ on $(0, \infty)$.

2. (10 points) Find the global extrema of the function $f(x) = x^2 - 4x + 7$ on $[0, 3]$

Name: _____

Quiz 17 ♣

MATH 200

November 7, 2022

1. (10 points) Find the global extrema of the function $f(x) = 2x + \dfrac{8}{x^2}$ on $(0, \infty)$.

2. (10 points) Find the global extrema of the function $f(x) = x^3 - 3x$ on $[0, 2]$.

Name: _____

Quiz 17 ♢

MATH 200
November 7, 2022

1. (10 points) Find the global extrema of the function $f(x) = 100 + 300x - x^3$ on $(0, \infty)$.

2. (10 points) Find the global extrema of the function $f(x) = \cos(x)\sin(x)$ on $[0, \pi]$.

Name: _____

Quiz 17 ♠

MATH 200

November 7, 2022

1. (10 points) Find the global extrema of the function $f(x) = x^3 - 75x + 10$ on $(0, \infty)$.

2. (10 points) Find the global extrema of the function $f(x) = \sqrt[3]{x}^4 + 4\sqrt[3]{x}$ on $[-8, 8]$.