
Name: _____

QUIZ 17 ♠

MATH 200
November 8, 2021

1. (10 points) Find the global extrema of the function $f(x) = x\sqrt{2-x}$ on the closed interval $[-2, 2]$.

2. (10 points) Find the global extrema of the function $f(x) = x^2 + \frac{16}{x}$ on the open interval $(0, \infty)$.

Name: _____

1. (10 points) Find the global extrema of the function $f(x) = x^3 - 3x$ on the closed interval $[0, 2]$.

2. (10 points) Find the global extrema of the function $f(x) = xe^{3x}$ on the open interval $(-5, \infty)$.

Name: _____

QUIZ 17 ♣

MATH 200
November 8, 2021

1. (10 points) Find the global extrema of the function $f(x) = x + \frac{1}{x}$ on the closed interval $[\frac{1}{2}, 3]$.

2. (10 points) Find the global extrema of the function $f(x) = xe^{-2x}$ on the open interval $(0, \infty)$.

