

Name: _____


QUIZ 17 

MATH 200
March 31, 2022

1. (10 points) Find the global extrema of the function $f(x) = x - 2\sqrt{x}$ on the closed interval $[0, 9]$.

2. (10 points) Find the global extrema of the function $f(x) = \sin(x) - \frac{x}{2}$ on the open interval $\left(0, \frac{\pi}{2}\right)$.

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1. (10 points) Find the global extrema of the function $f(x) = 8\sqrt{x} - x$ on the closed interval $[0, 25]$.

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