

Name: _____


QUIZ 17 

MATH 200
October 26, 2023

1. Find the global extrema of the function $f(x) = \sin(x) - \frac{x}{2}$ on the closed interval $\left[0, \frac{\pi}{2}\right]$.

2. Find the global extrema of the function $f(x) = x - 2\sqrt{x}$ on the open interval $(0, 9)$.

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1. Find the global extrema of the function $f(x) = \frac{x}{2} + \cos(x)$ on the closed interval $\left[0, \frac{\pi}{2}\right]$.

2. Find the global extrema of the function $f(x) = 8\sqrt{x} - x$ on the open interval $(0, 25)$.