

Name: \_\_\_\_\_

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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Name: \_\_\_\_\_

QUIZ 17 ♣

MATH 200  
March 26, 2026

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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  $(0, 25)$ .



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QUIZ 17 ♠

MATH 200  
March 26, 2026

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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  $(0, \frac{\pi}{2})$ .