

Math 2250 Quiz 11.5 (Practice)

Name _____ Section _____

Points will be deducted for untidy or disorganized answers

1. (1 point) Find the average value of $f(x) = x^2$ on the interval $[-1, 3]$.
2. (2 points) Find the *total area* bounded between the graph $y = \cos x$, the x -axis, the y -axis, and the vertical line $x = 3\pi/4$.
3. (2 points) Find $f'(x)$ when

$$f(x) = \int_{\sin x}^{143} (t^3 + 2)^2 dt.$$