Math 125F Winter 2002 **Name:** _____

Quiz #2

Quiz Section: _____

SHOW YOUR WORK

1. (6 points) Use the Midpoint Rule and $n = 4$ to approximate $\int_0^{\pi} \sin(x)\,dx$.

2. (4 points) Use the Fundamental Theorem of Calculus to compute the area of the region that lies beneath the curve $y = \sqrt{x^3}$ between $x = 1$ and $x = 4$.

Math 125F Winter 2002 **Name:** _____

Quiz #2

Quiz Section: _____

SHOW YOUR WORK

1. (6 points) Use the Midpoint Rule and $n = 4$ to approximate $\int_0^{\frac{\pi}{2}} \cos(x)\, dx$.

2. (4 points) Use the Fundamental Theorem of Calculus to compute the area of the region that lies beneath the curve $y = \sqrt[3]{x^2}$ between $x = 0$ and $x = 8$.