## Math 182

## Quiz 7

Name:
February 21, 2003
Show all work for credit.
Leave all answers as exact answers unless otherwise stated.

1. Does $\int_{1}^{\infty} \frac{\sin ^{4}(x) d x}{x^{3 / 2}}$ converge? Justify your answer.
2. Find the arc-length of $f(x)=\left(x-\frac{4}{9}\right)^{3 / 2}$ for $3 \leq x \leq 9$.
