Math $221 \quad 2007 / 12 / 5$
QUIZ 13
Name $\qquad$

- Show all your work for each problem; show enough work to fully justify your answer.
- Simplify all answers as far as possible.
- All numerical answers must be in terms of actual numbers and standard constants like $\pi$.
(1) [Points: 10] Find $\frac{d}{d x} \int_{1}^{x^{2}} \sqrt{1+t^{4}} d t$. Quick! (it's short).

