- Show all your work for each problem; show enough work to fully justify your answer.
- Simplify all answers as far as possible.

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- All numerical answers must be in terms of actual numbers and standard constants like π .
- (1) [Points: 10] Find $\frac{d}{dx} \int_1^{x^2} \sqrt{1+t^4} dt$. Quick! (it's short).