## Quiz 3

Math 1B, Spring 2012

February 10, 2012
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## SECTION:

NAME:

Solve the following integral, showing all steps clearly:

$$
\int_{0}^{\infty} \frac{x \arctan (x) \mathrm{d} x}{\left(1+x^{2}\right)^{2}}
$$

Be careful about identifying improper integrals, and expressing them as limits of proper integrals!

