

- Total points: 10+10 quiz points.
- Show *complete work*—that is, all the steps needed to completely justify your answer.
- *Simplify* your answers as much as possible.
- If you need extra space, work on the back and make a note on the front.

(1) $\int_0^{1/2} \frac{1}{1+x^2} dx =$

(2) $\frac{d}{dx} \sin^{-1}(x/2)$ evaluated at $x = -1$ is what number?