

## Math 276 Discussion Worksheet 5

1. a.  $x + \frac{1}{2}(\log x)^2 + C$       b.  $\frac{\pi}{4}$

2. a.  $\frac{e^2+1}{4}$       b.  $\frac{1}{2}e^x \cos x + C$

3. a.  $\frac{1}{2}$       b. 0

4. a.  $(\log x)^x(\log \log x + \frac{1}{\log x})$       b.  $-e^{\arccos x} \frac{1}{\sqrt{1-x^2}} - e^{\arctan x} \frac{1}{1+x^2}$