MATH 149 Spring 2010

Homework 7

- 1. (Mad Hatter 11-12 2005) How many real solutions are there to the equation $\sqrt{x^2+1}+\sqrt{x}=1$? (Find all solutions.)
- 2. (Mad Hatter 11-12 2006) Solve for x: $\log_2 x + \log_3 x = 3 + \log_2 3 + \log_3 4$.
- 3. (Mad Hatter 11-12 2003) Solve for x: $\sqrt{x^2 x 12} < x$.
- 4. (Mad Hatter 11-12 2003) Solve for x: $\log_{x^2-3} 729 > 3$.