Name	
5.6 Practice	

## Solve each equation. Express irrational solutions in exact form and as a decimal rounded to 3 decimal places.

1.  $\log_{b}(x+1) - \log_{5} x = 2$ 2.  $\log(2x-1) + \log x = 1$ 

3.  $\log_3(c+15) - \log_3(1-c) = 2$  $4.\log_x(16807) = 5 + \log_x 7776$ 

6. 4 +  $3^{x+1} = 8$ 5.  $3^x = 14$ 

7.  $e^{2x} - 3e^x + 2 = 0$ 8.  $2^{x-1} = 3^{3x+1}$ 

(HINT for #9,10: Multiply each side by  $e^x$ ) 9.  $\frac{e^x + e^{-x}}{2} = 1$ 

10. 
$$\frac{e^x - e^{-x}}{2} = 4$$