

Review and Extra Fun Problems

<p>1. Solve for x, as a reduced fraction.</p> $25^x = \frac{1}{125^{x+1}}$	<p>2. Solve for x. Round answer to 3 decimal places.</p> $20^{3x+1} - 5 = 35$
<p>3. Solve for x. Round answer to 3 decimal places.</p> $5e^{-x+4} = 22$	<p>4. Evaluate $\log_2 31$. Round answer to 3 decimal places.</p>
<p>5. Solve for x. Give the answer in terms of natural logs.</p> $e^{2x} - e^x - 6 = 0$	<p>6. Solve for x. Round decimal answer to 3 decimal places. (Hint: treat 3^x as a variable)</p> $3^{2x} - 7 \cdot 3^x + 12 = 0$

Answers: 1. $\frac{-3}{5}$

2. .077

3. 2.518

4. 4.954

5. $\ln 3$

6. 1, 1.262