Math 120C Autumn, 2001	Name:			
,			Jeremy	Edwin
Quiz Five	Section	11:30	ĊĂ	$\mathbf{C}\mathbf{C}$
•	(circle one)	12:30	CB	CD
No notes. No calculators.	· · · · · ·			
Simplify your answers. Show your work.	Please put a box around Y	OUR FI	NAL ANS	SWER .
There are 15 points on this quiz.				

1 (3 points) Solve for x if $\log_3(x^2 - x) = 1$. Please give exact answers.

2 (4 points) Rewrite the function $y = 12(8^{-1+t/3})$ in the form $y = A_0 e^{at}$ for appropriate constants A_0 and a.

3 (4 points) The town of Oakdale, Wisconsin is experiencing a population boom. In 1995, the population was 750, and four years later it was 950. Find an exponential model p(x) for the population of Oakdale in year 1995 + x.

4 (4 points) A bank offers an account with 4% annual interest, compounded continuously. How long will it take the principal in such an account to triple in value? (Leave your answer in exact form.)