I I kodor	Instructor: Josh Ducey Program: Math 199E (Version for Math 205), Fall 2014 Test Bank: MyMathTest: Basic Algebra, Precalculus and Calculus
1.	Solve the following logarithmic equation. Be sure to reject any value of x that is not in the domain of the original logarithmic expression. Give the exact answer. $9+5 \ln x = 39$
	What is the solution in terms of e ? $\mathbf{x} = \square$
2.	Evaluate the expression without using a calculator. In e^3
	$\ln e^3 = \square$
3.	Solve the following exponential equation. Express the solution set in terms of natural logarithms. $5^{2x} + 5^x - 56 = 0$
	What is the solution in terms of natural logarithms? x = (Type an exact solution, using logarithmic functions as needed.)
l.	Solve the following exponential equation by expressing each side as a power of the same base and then equating exponents. $625^{x} = \frac{1}{\sqrt{5}}$
	Find the exact value of the logarithm without using a calculator. $\log_{12}144$ $\log_{12}144 = \square$

Dotor	Instructor: Josh Ducey Program: Math 199E (Version for Math 205), Fall 2014 Test Bank: MyMathTest: Basic Algebra, Precalculus and Calculus Assignment: Qualifier 5: Exponential and Logarithmic Functions Logarithmic Functions Program: Assignment: Qualifier 5: Exponential and Logarithmic Functions Assignment: Qualifier 5: Exponential and Logarithmic Functions
6.	Solve the following logarithmic equation. Be sure to reject any value of x that is not in the domain of the original logarithmic expression. Give the exact answer. $\log_2(7x+6) = 2$ $x = \boxed{\text{(Type an integer or a simplified fraction.)}}$
7.	Solve the following exponential equation. Express the solution set in terms of natural logarithms. $e^{4x} + 4e^{2x} - 32 = 0$
	What is the solution in terms of natural logarithms? x = (Type an exact solution, using logarithm functions as needed.)
8.	Find the domain of the logarithmic function. $f(x) = \ln (x^2 - 2x - 8)$
	The domain of f is . (Type your answer in interval notation.)
9.	Solve the logarithmic equation. Be sure to reject any value of x that is not in the domain of the original logarithmic expressions. Give the exact answer. $\log_3(x+2) + \log_3(x-6) = 2$
	Select the correct choice below and, if necessary, fill in the answer box to complete your answer. OA. x = (Simplify your answer. Use a comma to separate answers as needed.) OB. There is no solution.
0.	Solve the following exponential equation by expressing each side as a power of the same base and then equating exponents. $9^{x+7} = 243^{x-2}$
	$\chi = \square$