Topic: Solving Exponential Equations

Name: _____

Date: _____

What am I learning today?

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Warm-Up	Rewrite the following as a logarithm. 1. $10^2 = 100$ 2. $4^5 = 1024$ 3. $e^2 = 7.389$
Steps for Solving an Exponential Exponential Logarithm	1) Get the _____ by itself. 2) Rewrite the expression as a _____. 3) Evaluate with a calculator. 4) Solve.
Examples	Solve. 1) $2^x = 7$ 2) $4^{x+2} = 16$ 3) $10^{x-4} + 6 = 12$ 4) $1 - 3e^{2x} = -20$
You Try	Solve. 1) $10^x = 1000$ 2) $2^{3x-1} = 32$ 3) $5^{3x} - 2 = 23$ 4) $6 + 2e^{x+1} = 34$
Summary Summarize the lesson in your own words	

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Warm-Up	Rewrite the following as an exponential. 1) $\log_{27} 3 = \frac{1}{3}$ 2) $\log 5027 = 3.7$ 3) $\ln 85 = 4.44$
Steps for Solving a Logarithm Exponential Logarithm	1) Get the _____ by itself. 2) Rewrite the expression as a _____. 3) Evaluate with a calculator. 4) Solve.
Examples	Solve. 1) $\log_4 x = 2$ 2)$\log_5 (x + 2) = 1$ 3) $\log x - 3 = -4$ 4) $2\ln(3x) = 10$
You Try	Solve. 1) $\log_2 x = 3$ 2)$\log_6 (3x - 1) = 2$ 3) $6\log x = -6$ 4) $\ln x - 1 = 4$
Summary Summarize the lesson in your own words	