

Name Nazari M Date 12/7 Period 7

Algebra 2 – Ch8.6 – Solving Exponential and Logarithmic Equations – Assignment

1. Solve:

A. $\ln(2x+3) = \ln(5x+18)$ $\begin{aligned} (2x+3) &= (5x+18) \\ -2x &-18 \\ -15 &= 3x \\ \frac{-15}{3} &= \frac{3x}{3} \\ x &= -5 \end{aligned}$	B. $\ln x = 4.2$ $e^{4.2} = x$ $\boxed{66.686}$	C. $\log_3 x = 9$ $3^9 = x$ $\boxed{x = -19,683}$
D. $8.2 = \log_3(x+1)^4$ $\sqrt[4]{3^{8.2}} = \sqrt[4]{(x+1)^4}$ $\begin{aligned} 9.5 &= x+1 \\ -1 &-1 \\ \boxed{8.5} &= x \end{aligned}$	E. $25 = \frac{20e^{0.02t}}{20}$ $1.25 = \ln \cdot 0.02^t$ $t = \frac{\ln 1.25}{0.02}$ $t \approx 11.157$	F. $\log_5(3x+1) = 2$ $5^2 = 3x+1$ $\begin{aligned} 25 &= 3x+1 \\ -1 &-1 \\ \frac{24}{3} &= \frac{3x}{3} \\ \boxed{x} &= 8 \end{aligned}$

2. Solve each equation.

$2^{1-2x} = 2^{12}$ $1-2x = 12$ $-2x = 11$ $x = -5.5$	$5^{2x-1} = 125$ $5^{2x-1} = 5^3$ $2x-1 = 3$ $2x = 4$ $x = 2$
$4^{x+1} = 16$ $4^{x+1} = 4^2$ $x+1 = 2$ $x = 1$	$2^{x+3} = 8$ $2^{x+3} = 2^3$ $x+3 = 3$ $x = 0$

Algebra 2 Solving Exponential Equations Answer Key

Jintai Ding, Jean-Pierre Tillich



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