

Name Nazarii M

Date _____ Period _____

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

1. Solve:

A. $\ln(2x + 3) = \ln(5x + 18)$

$$\begin{aligned} \ln(2x + 3) &= \ln(5x + 18) \\ 2x + 3 &= 5x + 18 \\ -15 &= 3x \\ 3 &= -5 \\ x &= -5 \end{aligned}$$

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. $8.2 = \log_3(x+1)^4$

$$\begin{aligned} 3^{8.2} &= \sqrt[4]{(x+1)^4} \\ 9.5 &= x+1 \\ 8.5 &= x \end{aligned}$$

E. $\frac{25}{20} = \frac{20e^{0.02t}}{20}$

$$\begin{aligned} 1.25 &= \ln 1.25 \\ t &= \frac{\ln 1.25}{0.02} \\ t &\approx 11.157 \end{aligned}$$

F. $\log_5(3x+1) = 2$

$$\begin{aligned} 5^2 &= 3x+1 \\ 25 &= 3x+1 \\ \frac{24}{3} &= \frac{3x}{3} \\ 8 &= x \end{aligned}$$

2. Solve each equation.

$e^{1-2x} = 0.22$

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Christian Drosten

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