

Name Nazari M Date 12/7 Period 7

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

1. Solve:

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

2. Solve each equation.

|                                                                                                  |                                                                                                               |
|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <p><math>21-2x = 242</math></p> $-21$ $-2x = 221$ $\frac{-2x}{-2} = \frac{221}{-2}$ $x = -110.5$ | <p><math>5^{2x-1} = 25</math></p> $5^{2x-1} = 5^2$ $2x-1 = 2$ $2x = 3$ $\frac{2x}{2} = \frac{3}{2}$ $x = 1.5$ |
| <p><math>2^{x+1} = 16</math></p> $2^{x+1} = 2^4$ $x+1 = 4$ $x = 3$                               | <p><math>3^{x+2} = 27</math></p> $3^{x+2} = 3^3$ $x+2 = 3$ $x = 1$                                            |

# Algebra 2 Worksheet Solving Exponential Equations Answers

**Bowker Editorial Staff**



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