

Name Nazari MDate 12/7Period 7

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

1. Solve:

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

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

$$-15 = 3x$$

$$x = -5$$

B. $\ln x = 4.2$

$$e^{4.2} = x$$

$$x = 66.686$$

C. $\log_3 x = 9$

$$3^9 = x$$

$$x = 19,683$$

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

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

$$9.5 = x + 1$$

$$x = 8.5$$

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

$$1.25 = e^{0.02t}$$

$$t = \frac{\ln 1.25}{0.02}$$

$$t \approx 11.157$$

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

$$5^2 = 3x+1$$

$$25 = 3x+1$$

$$\frac{24}{3} = \frac{3x}{3}$$

$$x = 8$$

2. Solve each equation.

$21 - 2x = 242$ $-21 - 21$ $-2x = 221$ $\frac{-2x}{-2} = \frac{221}{-2}$ $x = -110.5$	$21 - 2x = 242$ $-21 - 21$ $-2x = 221$ $\frac{-2x}{-2} = \frac{221}{-2}$ $x = -110.5$
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