

Name: _____

Unit 7: Exponential & Logarithmic Functions

Date: _____

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Homework 8: Logarithmic & Exponential Equations

**** This is a 2-page document! ******Directions:** Solve each equation. Check all answers for extraneous solutions.

1. $\log_4(25 - 2x) = \log_4(6x + 1)$

$$x = 3$$

2. $\log_9(8x - 9) = \log_9 108 - \log_9 4$

$$y = 4.5$$

3. $6 - \log_2 2 = \log_2 8 + \log_2(x - 2)$

$$a = 10$$

4. $\log_6(5w + 14) - 2 = \log_6$

$$w = 7 \text{ or } \cancel{2}$$

5. $\log_7(3x + 5) = 2$

$$x = 14\frac{2}{3}$$

6. $\log_{27}(11 - 2k) = \frac{1}{3}$

$$k = 4$$

7. $\log(24x + 64) = 3$

$$x = 39$$

8. $5 = \log_2 8 + \log_2(r + 6)$

$$r = 24.375$$

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