

Algebra 2 – Unit 2 Lesson 2 Day 3 Worksheet

Name: _____ Hour: _____

Solve the equations.

1. $-2 + 3^x = 9$

5. $4(6)^x = 100$

2. $6^{x+1} = 45$

6. $2^{\frac{x}{3}} = 48$

3. $9 + \log_3 x = 16$

7. $\frac{\log_5 x}{3} = -1$

4. $\log_4(3x) = 3$

8. $\log\left(\frac{x}{2}\right) = -1$

Review Problems for Unit 2 Quiz #1. For anyone looking for similar examples to help with these problems, 1-4 are from Day 1, 5-8 are from Day 2, and 9-12 are from Day 3. You most likely NOT be able to use any review material for the Quiz.

1. $\frac{4}{3}(-6 + x) = -20$

7. $\frac{5}{3}x^3 = -10$

2. $7 - \frac{x}{5} = 9$

8. $(x - 3)^2 = 36$

3. $\frac{x+8}{2} = -3$

9. $10^{x-3} = 82$

4. $\frac{6}{x} = -12$

10. $-\frac{e^x}{4} = -3$

5. $\sqrt[5]{x+1} = -2$

11. $\frac{6}{5}\log_5 x = 12$

6. $-7 + x^4 = -20$

12. $\log_2(-7 + x) = 4$