

PRECAL HONORS

Name _____

4.4 – SOLVING EQUATIONS

Solve.

1. $2^{-2n} = 1$

2. $3^{-3x} = 27$

3. $4^{-x} = \frac{1}{64}$

4. $5^{2-x} \cdot 5^{3x} = 5^3$

5. $12^x - 5 = 24$

6. $10^{-6m} = 79$

7. $\log_9(v+6) = \log_9(2v+9)$

8. $\log_4(p^2 - 5) = \log_4(2p + 3)$

9. $\log_4(9) + \log_4(-4x) = 2$

10. $\log_2(10) - \log_2(5x) = 2$

11. $\log_4(5x^2) - \log_4(10) = \log_4(47)$

12. $\log_7(x^2 - 9) - \log_7(9) = \log_7(4)$