

Use the Change of Base Formula to evaluate each expression.

1. $\log_2 9$

2. $\log_4 8$

3. $\log_3 54$

4. $\log_5 62$

5. $\log_3 33$

6. $\log_2 7$

7. $\log_5 510$

8. $\log_4 1.116$

9. $\log_2 2$

Solve the equation.

10. $8^n = 12$

11. $10^{2x} = 9$

12. $5^{n+1} = 3$

13. $10^{n-2} = 0.3$

14. $3^{3n} = 50$

15. $10^{2n-5} = 500$