Logs and Exponentials LE2

Write each equation in logarithmic form:

1. $2^x = 32$

2. $81 = 3^x$

3. $4^x = y$

4. $25 = 2^y$

5. $y = 10^x$

6. $3 = e^y$

Write each equation in exponential form:

7. $6 = \log_2 x$

8. $x = \log_3 3$

9. $x = \log_5 16$

10. $\log_4 x = 6$

11. $\log_{10} 5 = y$

12. $3 = \log_2 8$

Solve for x:

13. $x = 2^3$

14. $16 = 2^x$

15. $\log_2 x = 4$

16. $\log_2 2^5 = x$

17. $\log_2 4 = x$

18. $\log_2 \frac{1}{8} = x$

19. $\log_x 4 = 2$

20. $\log_x 4 = \frac{1}{2}$