

Answers to Classwork– Exponential and Logarithmic Equations

1. $x = -1$	2. $x = 2$
3. $x = \frac{3}{2}$	4. $x = \frac{5}{2}$
5. $x = \pm\sqrt{2}$	6. $x = \frac{-1}{4}$
7. $x = \frac{\ln(21)}{\ln(4)}$	8. $x = \frac{\ln(11)}{5\ln(2)}$
9. $x = \frac{\ln(16) - \ln(3)}{\ln(3)}$	10. $x = \frac{\ln(23) + 2\ln(9)}{\ln(9)}$
11. $x = \ln\left(\frac{107}{9}\right)$	12. $x = \frac{\ln(30) + 3}{2}$
13. $x = \frac{\ln(6) - 1}{4}$	14. $x = \frac{-2\ln(3) - 2\ln(2)}{8\ln(2) - 5\ln(3)}$
15. $x = 4$	16. $x = \frac{5 - e^2}{2}$
17. $x = 16$	18. $x = 5$
19. $x = 2$	20. $x = \frac{29}{8}$
21. $x = 2$	22. $x = \frac{1}{3}$
23. $x = 4$	24. $x = 7$