

Name _____

Date _____

Solve for the Unknown (Using Logarithms) Problems - Independent Practice Worksheet

Solve for the unknown variable in each problem.

1) $\log_3 b + \log_2 32 = 7$

2) $\log_2 512 - \log_4 x = 8$

3) $\log_3 b + \log_2 256 = 9$

4) $\log_5 25 - \log_9 x = 3/2$

5) $\log_3 b + \log_7 \sqrt[2]{7^{18}} = 10$

6) $\log_8 512 - \log_7 x = 2$

7) $\log_2 b + \log_2 256 = 10$

8) $\log_2 32 - \log_4 x = 9/2$

9) $\log_{14} b + \log_4 \sqrt[2]{4^{58}} = 30$

10) $\log_{15} 225 - \log_6 x = 1/2 \log_{10} 100$

