Solving logarithmic equations

Name _____ Date _____

1. $\log_2 x + \log_2 (x + 30) = 6$ _____

2. $\log_3 x + \log_3 (x + 8) = 2$ _____

3. $\log_2 (x + 4) - \log_2 x = \log_2 5$ _____

4. $\log_2 (x + 16) - \log_2 x = \log_2 3$ _____

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5. $\log_2(x + 36) - \log_2 x = \log_2 5$ _____

6. $\log_2 x + \log_2(x + 2) = 3$ _____

7. $\log_3(x + 4) - \log_3 x = \log_3 2$ _____

8. $\log_2(x + 9) - \log_2 x = \log_2 2$ _____