Math 3 "Solving Logarithms Using Condensing"
Act. #66

* Solve the following. Condense first.

1. $\log_2 3 + \log_2 x = 5$

2. $\log_4 x - \log_4 6 = 2$

3. $\log_3 6 + \log_3 (x+5) = 4$

4. $\log_5 (2x+3) - \log_5 4 = 2$

5. $\log (x+2) + \log (10) = 2$

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

7. $\log_{16} (x^3) + \log_{16} 2 = 1$

8. $\log_6 (4) + \log_6 (3x-1) = 2$

9. $3 = \log (5x-10)$

10. $\log (6x-4) - \log (2x+5) = 1$

11. $2 = \log_5 (5x) + \log_5 (5x^2)$

12. $\log_4 8 + \log_4 2 + \log_4 (x-10) = 3$