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Nam: _____ Hour: _____

Practice 8-4 A

Expand each logarithm.

32. $\log xyz$

33. $\log_2 \frac{x}{yz}$

34. $\log 6x^3y$

35. $\log_5 7(3x-2)^2$

36. $\log \sqrt{\frac{2rst}{5w}}$

37. $\log \frac{5x}{4y}$

38. $\log_5 5x^{-5}$

39. $\log \frac{2x^2y}{3k^3}$

40. $\log_4 (3xyz)^2$