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Benjamin Rossman* (brossman@theory.csail.mit.edu), Room G636, The Stata Center,
Cambridge, MA 02139. *k-Clique Requires $k/4$ Variables.*

Using techniques from random graph theory and circuit complexity, we prove that $k/4$ variables are required to define the class of ordered graphs containing a k -clique in first-order logic. (Received August 29, 2008)