Name:_

- 1. What is the formula for the number of edges in K_N ? K_N has $\frac{N(N-1)}{2}$ edges.
- 2. Explain where this formula comes from how to derive it.

There are N-1 edges touching each of the N vertices, for a total of N(N-1) edges. But each edge is being counted twice—once from each endpoint. So you must divide by 2 to get the correct number of edges.