962-05-1360 **Talmage J Reid*** (mmreid@yahoo.com), Department of Mathematics, University, MS 38677, and **Haidong Wu**, Department of Mathematics, University, MS 38677. *On the number of edges meeting vertices of degree $k$ in minimally $k$-connected graphs.*

We give a lower bound on the number of edges meeting some vertex of degree $k$ in terms of the total number of edges in a minimally k-connected graph. This lower bound is tight if $k$ is two or three. The extremal graphs in the case that $k = 2$ are characterized. We also give a lower bound on the number of elements meeting some 2-element cocircuit in terms of the total number of elements in a minimally 2-connected matroid. This lower bound is tight and the extremal matroids are characterized. (Received October 03, 2000)