998-05-109 **Isidoro Gitler** (igitler@math.cinvestav.mx), Departamento de Matematicas., Av. IPN 2508 Col. San Pedro Zacatenco, 07300 Mexico, D. F., D. F., Mexico, and **Feliu Sagols*** (fsagols@math.cinvestav.mx), Departamento de Matematicas., Av. IPN 2508 Col. San Pedro Zacatenco, 07300 Mexico, D. F., D. F., Mexico. *A new proof of delta-wye reducibility of three terminal planar graphs.* Preliminary report.

In 1966, G. Epifanov proved the Akers-Lehman conjecture, that any planar graph with two terminals can be reduced by means of delta-wye transformations to a single edge, the last two nodes being the original two terminal. In 1991 I. Gitler proved the 3-terminal planar conjecture. We give a new proof of the 3-terminal case by proving that any planar graph with three terminals can be reduced to a path of length three with vertex set being the original three terminals, using these operations on the medial graph. We study the delta-wye reducibility problem for non-planar graphs. (Received February 17, 2004)