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Nooreen Khan* (noureen.khan@unt.edu). *On Kawauchi's 4-moves Question.*

We address the question proposed by Kawauchi [1], "are link -homotopic links 4 - move equivalent"? We define and apply the invariants of 4 - moves and present a link as potential counter example to answer Kawauchi's question.

[1] R. Kirby, Problems in Low-dimensional Topology; Geometric Topology (Proceedings of the Georgia International Topology Conference, 1993) (Received September 12, 2011)