

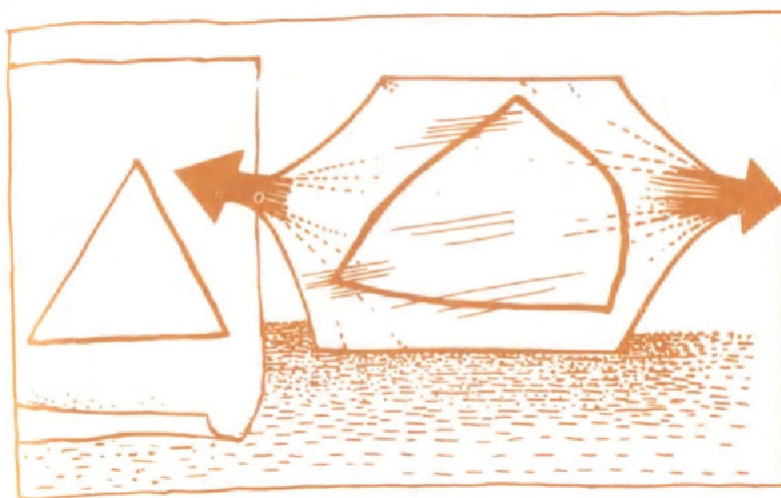
## Second Supplement to Chapter 8 of Sutherland,

### Introduction to Metric and Topological Spaces (Second Edition)

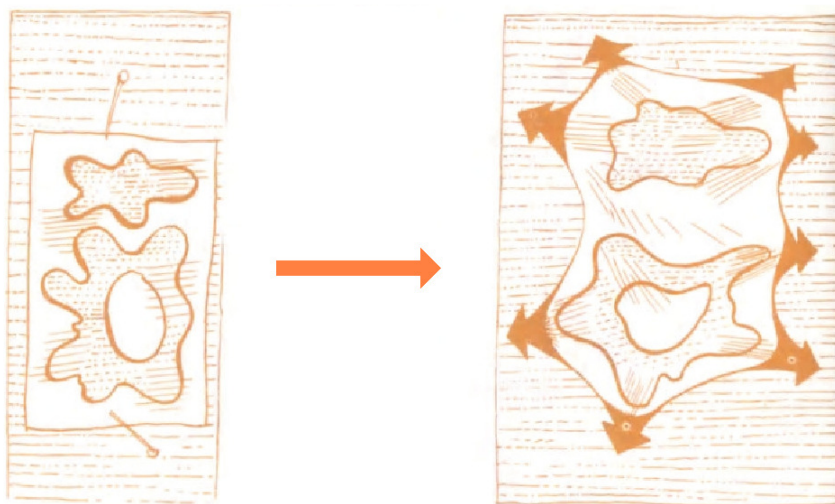
Here are some additional drawings of rubber sheet deformations which are physical models of homeomorphisms. These are taken from pages 43 and 46 of the following book:

YA. I. Khurgin. *Did You Say Mathematics?* (transl. from the Russian original by G. Yankovsky). Mir Publications, Moscow, Russia, 1985.

This book also contains an entire section (*Rubber Sheet Mathematics*, pp. 41 – 66) on the relationship between the physical notion of rubber sheet transformations and the abstract mathematical concept of homeomorphism.



This drawing (from page 43) illustrates the effect of stretching the plane of a standard triangle horizontally on the left and right.



This drawing (from page 46) illustrates the effect of stretching the plane containing the irregularly shaped region in a several distinct directions and at a number of different points.