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Ray Treinen* (rt30@txstate.edu), 601 University Dr., San marcos, TX 78666. *On the classification and asymptotic behavior of the symmetric capillary surfaces.*

The symmetric configurations for the equilibrium shape of a fluid interface are given by the geometric differential equation mean curvature is proportional to height. The equations are explored numerically to highlight the differences in classically treated capillary tubes and sessile drops, and what has recently emerged as annular capillary surfaces. Asymptotic results are presented. (Received February 11, 2014)