Anton Leykin* (leykin@math.gatech.edu) and Frank Sottile. Trace test.

We give a brief derivation of the trace test to verify completeness of a partial witness set of an irreducible variety in affine or projective space. We also demonstrate how to apply the trace test for subvarieties of products of projective spaces working with multihomogeneous witness sets and using local coordinates. (Received August 10, 2016)