They can also be solved using the following key stroke sequence on a calculator with three memories. This sequence actually solves for Hc in this order: (cos LHA x cos dec x cos lat) + (sin lat x sin dec) = arc sin hc _ _ _ _ _ _ _ _ Assumed Lat 2nd DMS-D.D (changes to decimal degree format) STO 1 (stored A. LAT in 1) Declination 2nd DMS-D. D STO 2 (stored DEC in 2) GHA 2nd DMS-D. D Assumed Longitude 2nd DMS - D.D = (computed LHA) STÒ 3 ' (LHA stored in 3) COS RECALL 2 (recalled declination) COS RECALL 1 (recalled Assumed latitude) COS RECALL 1 (recalled A. LAT) SIN Х RECALL 2 (recalled DEC) SIN 2nd SIN (ARCSIN, computed Hc) 2nd D. D-DMS (changes decimal degree Hc to degree-minute-second so it can be written down) 2nd DMS - D.D (changes it back) COS 1/x(converts COS Hc to SEC Hc) RECALL 3 (recalled LHA) SIN RECALL 2 (recalled DEC) Page 1

sin - cos key sequence.txt

Sin - cos key sequence.txt = 2nd SIN (ARCSIN, computed Z) *