

M39 Analysis

Name:

Group Members:

Date:

Derive the Distance to the cluster

B-V of Sun = 0.6

Absolute Visual Magnitude (from H-R Diagram)

M_{Sun} =

M_{M39} =

Distance to M39 (pc) =

Density of Stars

Distance to M39 (pc) =

W_a (arcmin) = 13 arcmin

W_a (radians) =

W_{pc} (pc) =

Volume: $V = W_{\text{pc}}^3$ =

Number of stars in one field: N =

Density of stars: $n_{\text{M39}} = N/V$ =