HW3, #1 Hardie's paper appears in ApJ 122, 256 (1955). The average apparent magnitude is m = 7,75 Gaia has measured for RR Lyr parallex = 3.98 ± 0.02 mas -) dist = 251 pc We would then infer m-M) = 5 log (251) -5 = 7.00 and so $M_V = m_V - 7.00 = 0.75$ This is a bit fainter than the absolute mag of RR Lyr as a class given by Muraveva et al., MNRAS 481, 1195 (2018) Muraveva: My = 0.66