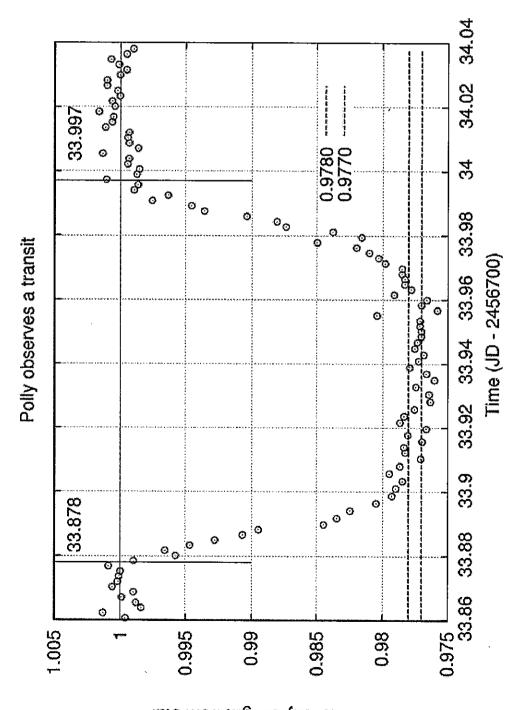
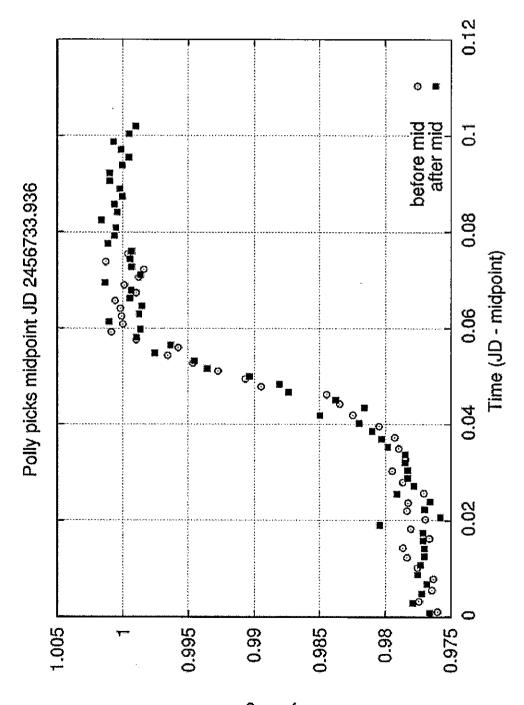
HW5 Polly measures the transit of a star. See "sample-transit.dat". depth is ~ (1.0 - 0.9770) = 0.0230 ± 0.000 - duration is (33.997-33.878) = 0.119 ± 0.005 10,280 ± 430 5 See Fig 3. midpoint is 2456733. 936 ± 0.001 See Fig 4. limb darkening is responsible for the curved bottom of the light curve. It appears a reasonable value s µ = 0.2 to 0.3 See Fig 5. Which real exoplanet is this? WASP-39b.



Intensity of light from star

Fig 3 4/20/201



Intensity of light from star

Fig 4 4/20/201:

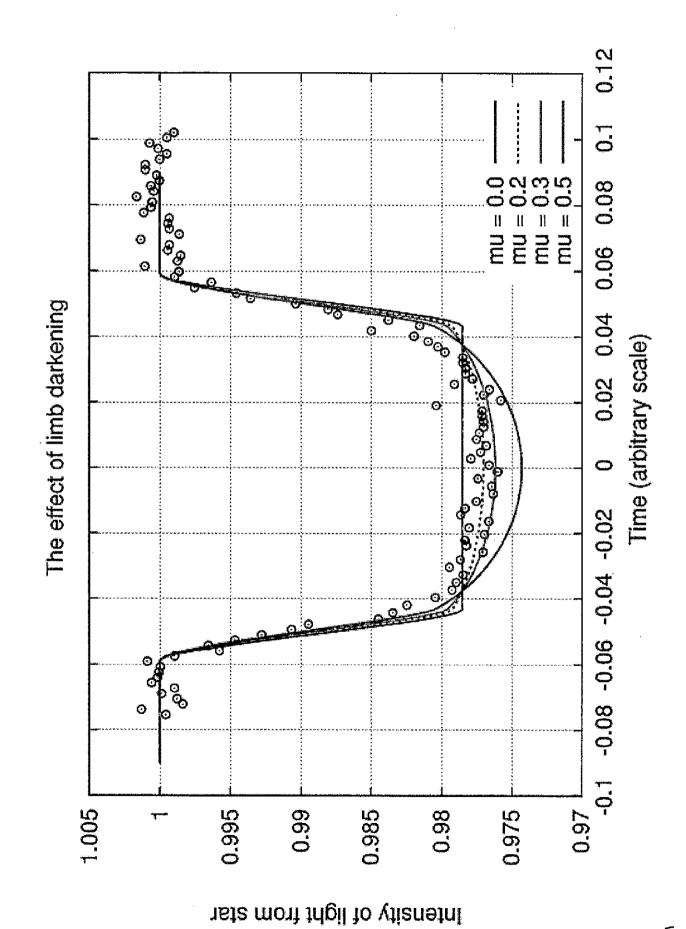


Fig 5 4/20/2019