Exercise 11. Exoplanet Transits

Student's Name: _____Jerome Larson_____

========== **Exoplanet 1** ==========

Catalog designation: _____KIC 757450_____

Orbital (transit) Period: $T_{\text{orb}} =$ _8.888_____ [days] Transit Duration: $\Delta t =$ _____0.1_____ [days]

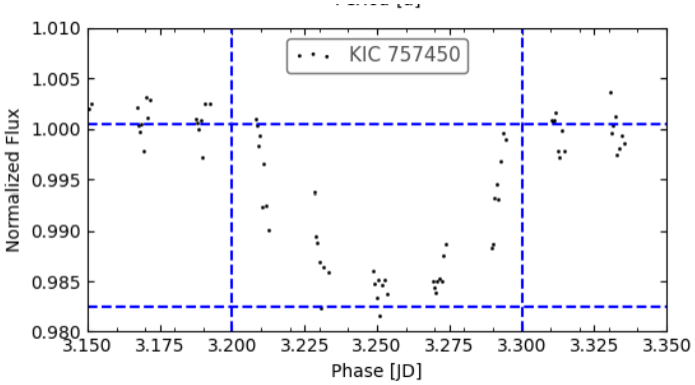
Relative Brightness Maximum and Minimum: $m_{\text{max}} =$____1.0005_____
$m_{\text{min}} =$_____0.9825_____

Fraction of light blocked: $f_{\text{light}} =$ ___0.017991_____

Stellar radius: $R_{\text{star}} =$ _____0.843_____ [R_{sun}]

Stellar Effective Temperature: $T_{\text{eff}} =$ _____5332_____ [°K]

Light Curve:



========== **Exoplanet 2** ==========

Catalog designation: _____KIC 8191672_____

Orbital (transit) Period: $T_{\text{orb}} =$ _____17.587_____ [days] Transit Duration: $\Delta t =$ _____0.14_____ [days]

Relative Brightness Maximum and Minimum: $m_{\text{max}} =$_____1.0005_____
$m_{\text{min}} =$_____0.995_____

Fraction of light blocked: $f_{\text{light}} =$ ____0.005497_____

Stellar radius: $R_{\text{star}} =$ _____1.746_____ [R_{sun}]

Stellar Effective Temperature: $T_{\text{eff}} =$ _____6290_____ [°K]

Light Curve: