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Eclipsing Binary Simulator - Student Guide

Background Material

Complete the following section after accessing the free background pages.

Question 1. Carefully describe where the center of mass is located relative to the two stars. How close or a large amount.

Question 2. Complete the following table relative to the location of the center of mass.

Star	Star 1	Star 2	r_{cm}
Mass ($M_{i,c}$)	M_1	M_2	M_1
Position A	0	0	0
Position B	0	0	0
Position C	0	0	0

Question 3. If a small (M_1) star and a large star (M_2) are completely obscured by a large M_2 star, the dip in total luminosity of the binary system would be best described as (under your answer table):

(a) very large
(b) around 50%
(c) very small

Question 4. Complete the following table relative to stellar luminosity.

Star	Luminosity ($L_{i,c}$)	Radius ($R_{i,c}$)	Temperature ($T_{i,c}$)
Star A		3	1
Star B	10	2	2
Star C		10	2

Question 5. A graph of flux versus time is shown. Imagine that you make measurements of the light of the star in the system and create a periodic graph of your observations (the light curve). If you make an observation at 1.0 days, what would be the shape of the observation? Explain.

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