

Eclipsing Binary Simulator – Student Guide

Background Material

Complete the following section after reviewing the four background pages.

Question 1: Crudely describe where the center of mass is located relative to the two stars that make up a binary system. When comparing 2 stars the center of the larger star will have a larger mass.

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

Star	Star 1		Star 2		x_{CM}
	Mass (M_{\odot})	x	Mass (M_{\odot})	x	
System A	6	0	6	10	5
System B	4	0	2	6	2
System C	3	0	6	6	4

Question 3: If a small O2 spectral type star is completely obscured by a large M4 spectral type star, the drop in total luminosity of the binary system would be best described as ...

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

Question 4: Complete the following table related to stellar luminosities.

Star	Luminosity (L_{\odot})	Radius (R_{\odot})	Temperature (T_{\odot})
Star A	9	3	1
Star B	16	1	2
Star C	4	$\frac{1}{2}$	2

Question 5: A grandfather clock starts exactly at noon. Imagine that you make measurements of the height of the tip of the minute hand and create a periodic graph of your data (much like a light curve). If you make an observation at 2:40 pm, what would be the phase of this observation? Explain. 16 divided by 24 is .66 therefore the min hand would have completed 66 % of its cycle.

Eclipsing Binary Student Guide Answers

Stephen P. Lattanzio



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In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Eclipsing Binary Student Guide Answers**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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