

ASTRONOMY 020

Problem Set #16

Due: February 13, 2004

1. Zeilik & Gregory, Chapter 12, problem 6.
2. Zeilik & Gregory, Chapter 12, problem 7.
3. Zeilik & Gregory, Chapter 12, problem 16.

Practice problems:

1. Zeilik & Gregory, Chapter 12, problem 3.
Answer: $m_1 + m_2 = 2.9M_{\odot}$.
2. Zeilik & Gregory, Chapter 12, problem 12.
Answers: (a) L ranges from $7.9 \times 10^{-4}L_{\odot}$ to $1.0 \times 10^8L_{\odot}$, (b) $0.56M_{\odot}, 5.6M_{\odot}$.