

Name: \_\_\_\_\_

The University of Alabama in Huntsville

Course number    Course title

Homework Assignment/Exam XX

Turn in this assignment page on top of your solutions. Solutions must be neat and readable. No credit for anything that is not. Clearly indicate your final answers.

|           |    |   |    |    |    |    |    |    |       |
|-----------|----|---|----|----|----|----|----|----|-------|
| Question: | 1  | 2 | 3  | 4  | 5  | 6  | 7  | 8  | Total |
| Points:   | 25 | 5 | 10 | 10 | 10 | 10 | 10 | 35 | 115   |
| Score:    |    |   |    |    |    |    |    |    |       |

1. This is a question with multiple parts. Add or subtract as needed. Of course, questions and solutions can have math formulae. Solutions are printed if `\printanswers` is uncommented after the beginning of the document.

- (a) The first part of the question. [5 points]  
(b) The second part. [15 points]  
(c) The third part. Add or subtract parts as needed. [5 points]

Total for Question 1: 25 points

2. This is a question with no parts. [5 points]
3. There are many question formats we can use. Here is a multiple choice. The correct answer is noted in the options, and will be printed when the solutions are enabled. Here's the question: What is Newton's Second Law?

- A.  $\mathbf{F} = m\mathbf{a}$   
B.  $S = k_B \ln \Omega$   
C.  $p_x = (\hbar/i)\partial_x$   
D.  $v_x = dx/dt$

[10 points]

4. This is a multiple choice question with checkboxes. What is Newton's Second Law?

- ☐  $\mathbf{F} = m\mathbf{a}$   
☐  $S = k_B \ln \Omega$   
☐  $p_x = (\hbar/i)\partial_x$   
☐  $v_x = dx/dt$

[10 points]

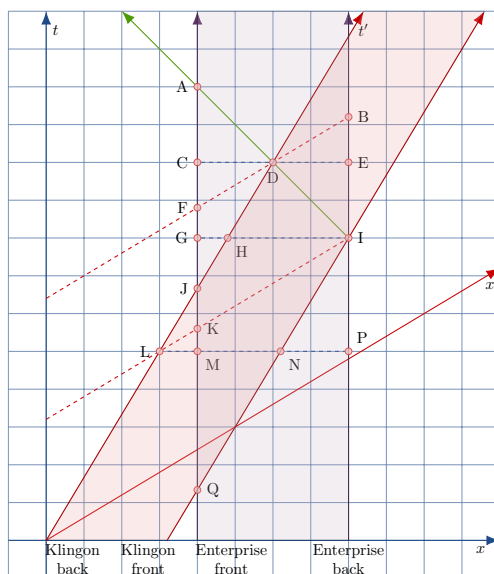
5. This is a multiple choice question with checkboxes, but the choices all one line to save space. The correct choice will print when answers is enabled in the preamble. What is Newton's Second Law?

☐  $\mathbf{F} = m\mathbf{a}$    ☐  $S = k_B \ln \Omega$    ☐  $p_x = (\hbar/i)\partial_x$    ☐  $v_x = dx/dt$  [10 points]

6. This is a fill in the blank question. Again, the answer is noted in the question. Here's the question: The next total solar eclipse visible in the US is in the month of \_\_\_\_\_. [10 points]

7. \_\_\_\_ This is true/false question. The world is not enough. [10 points]

8. This is a question with a figure.



**Figure 1** – This is a figure caption.

(a) The first part of the question. [5 points]

(b) The second part. [15 points]

(c) The third part. Add or subtract parts as needed. [5 points]

Total for Question 8: 35 points