

202 Chapter 2 Review Questions (16pts)

To receive credit:

- Write all answers in your bound journal
- -2pt if you do not have a title for the entry
- -2pt if you do not have a date for the entry

Page 31 Section 2.1 review questions 1-3

2.1 Section Review

1. State Newton's first law in your own words.
2. How is mass related to inertia?
3. What is the net force and how is it determined?

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2.2 Section Review

1. List three units in which acceleration can be measured.
2. According to Newton's second law, what causes acceleration? What resists acceleration?
3. An 8,000 kg helicopter's speed increases from 0 m/sec to 25 m/sec in 5 seconds. Calculate its acceleration and the net force acting on it.
4. Define the term "net force."
5. Describe the conceptual relationship between energy and force.

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2.3 Section Review

1. Describe the motion of a freely falling object. Use the words speed, acceleration, and distance in your answer.
2. What is the difference between mass and weight?
3. If you drop a feather and a baseball in a place where there is no air (a vacuum), how will their motions compare? Why?

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2.4 Section Review

1. Explain how to calculate the slope of a graph.
2. What does the slope of a position versus time graph represent?
3. Draw the position versus time graph and the speed versus time graph for an object moving at a constant speed of 2 m/sec.
4. How can you use a speed versus time graph to find an object's acceleration?