Assignment 6

Below are three multiple choice questions that were going to appear on the midterm, but I decided to remove to reduce the number of multiple-choice questions to 16. For each question, the correct answer is bolded. Either explain why or give an example why the other choices in each question are not the correct answer.

1. Which of the following statements is most correct?

a) The normal force is the same thing as the weight
b) The normal force is different from the weight, but always has the same magnitude.
c) The normal force is different from the weight, but the two form an action–reaction pair according to Newton's third law
d) The normal force is different from the weight, but the two may have the same magnitude in certain cases

2. The velocity versus time plot of a running dog is shown below. Which of the following statements are true? Circle all that apply if multiple are true.



a) The car has the greatest acceleration between t=0 and t=2s
b) The car travels the greatest distance