

Quiz #6

Directions: Carefully read each question below and answer to the best of your ability in the space provided. You **MUST** show your work to receive full credit! Your answer to problem # 2 should be written in a clear and concise manner using a combination of complete sentences and symbolic expressions. An answer without explanation or that is poorly presented may not receive full credit.

1. (1 point) A population of protozoa develops with a constant relative growth rate of 0.7944 per member per day. On day zero the population consists of two members. Find the population size after six days. **Round to the nearest integer.**
 - A. 8
 - B. 27
 - C. 54
 - D. 235
 - E. 116,797
2. (2 points) If a rock is thrown vertically upward from the surface of Mars with velocity 15 m/s, its height after t seconds is $h(t) = 15t - 1.86t^2$.
 - (a) What is the velocity of the rock after 2 second?

 - (b) What is the velocity of the rock when its height is 25 m on its way up? On its way down?

Name: _____

Question:	1	2	Total
Points:	1	2	3
Score:			