

M4.T2.L3 Free Dive Practice

Name _____ Date: _____ Pd: _____

A whale leaps into the air and dives back into the ocean at a steady rate of 2.14 feet per second.

a. Complete the table to show how deep the whale will be after each given time.

Time (seconds)	Depth (feet) (space to show work)
10	
30	
60	
95	

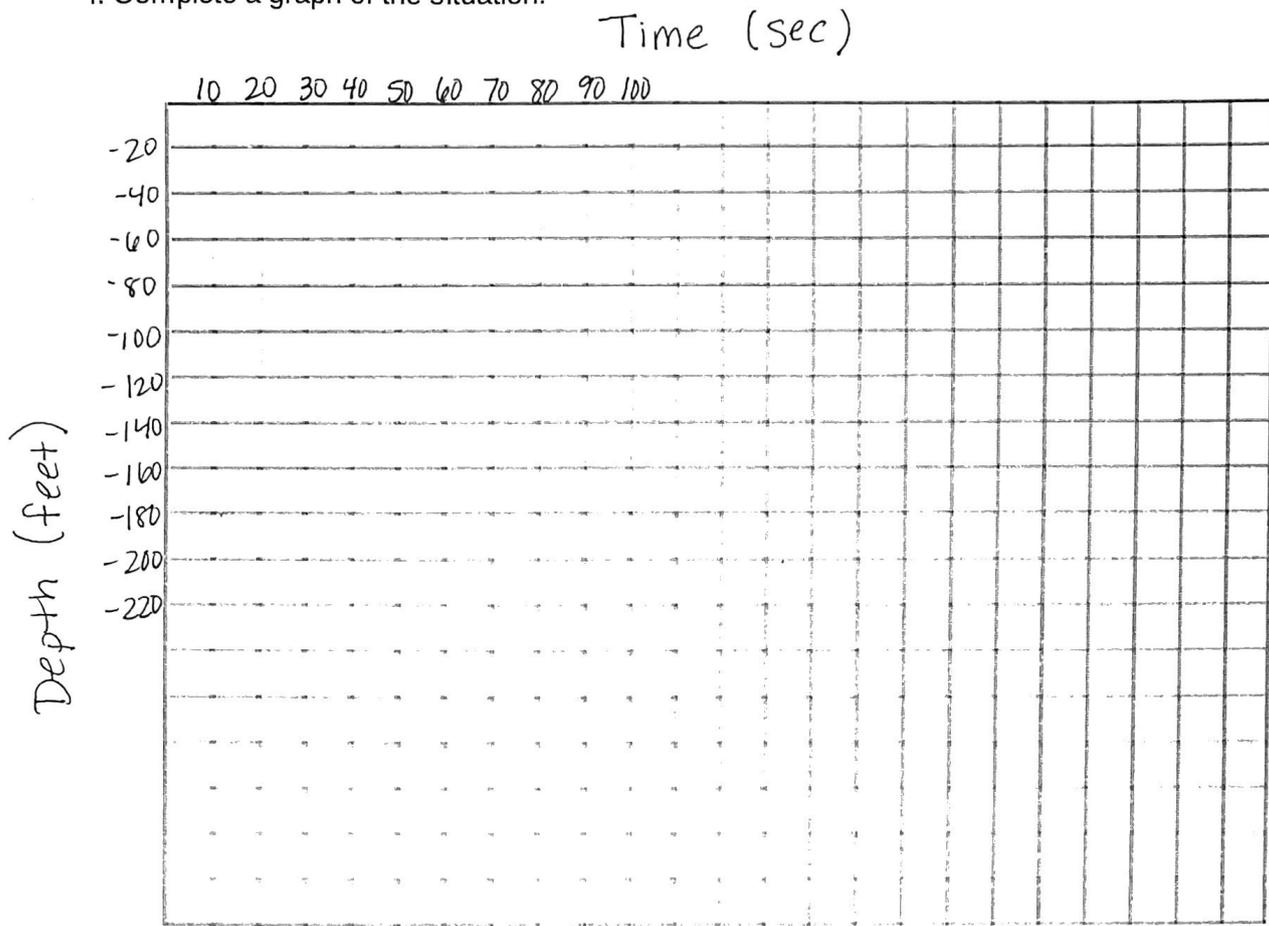
b. What are the quantities that change in this situation?

c. Which variable is independent? Which is dependent?

d. Define variables for the independent and dependent quantities for this situation.

e. Write an equation for this situation. (Because the whale is diving under water, the number of feet he dives will be defined as negative values.)

f. Complete a graph of the situation.



g. Does it make sense to connect the points you plotted in a line? Why or why not?