## Physics 112/111 ICA: Velocity vs. Time Graph #1

|        | 1   |  |
|--------|-----|--|
| Name - | Lon |  |
|        |     |  |

b. v= -70.0m = -0.438m ()

Date - 12 13

## SHOW YOUR WORK ON YOUR OWN PAPER.

Use north or south to indicate the directions of vector quantities.

Report all answers to three significant digits.

| 1. The maximum velocity of the object is (1)   |
|--|
| 2. What is the velocity of the object at $t = 75 \text{ s}$ ?  |
| 3. What is the acceleration of the object at $t = 110 \text{ s}$ ? Or but only $\sim$ (2)                      |
| 4. How much time does the object spend traveling north? $\frac{10.05}{10.05}$ south? $\frac{10.05}{10.05}$ (2) |
| 5. What is the displacement of the object after 160 s?   |
| 6. What is the average velocity of the object for the 160 s trip? O.438m/s. (2)                                |
| 7. The maximum speed of the object is(1)   |
| 8. What is the average speed of the object during the 160 s trip? 144mls (2)                                   |
| 9. The total time that the object is stopped is  |
| 10. What is the average acceleration of the object between 20 s and 75 s? (2)                                  |
| 11. At what time, if any, did the object reverse its direction?  |
| 3. $(90,0).(115,16)$ $\frac{16-0}{115-98} = 0.640mls^{2}$ $\frac{7. V = 630 + 560}{160} = 7.44mls$             |
| (20, -6), (70, -4)   |
| 5. $A_1 = \frac{1}{2}(80+25)(12) = 630m$ $-6+9 = 0.0364mls$  |
| 12 2   |
| d = -630m + 560m = -70.0m  |