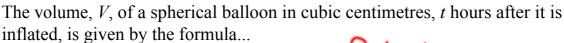
Warm Up

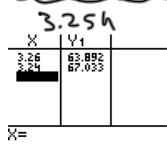


V =
$$\frac{4}{3}\pi(9-2t)^3$$
 (t < 4.5h) 0 = 4 < 4.5h

(a) Determine the average rate of change between t = 1.2 hours and t = 4.1 hours.

X	Y1	
1.2	1204.3 2.1447	
4.1	2.1447	
0_		
χ=		

(b) Determine the instantaneous rate of change in the volume after 3 hours and 15 minutes.



(c) Why is there a restriction on the value of t?

-> Volume Must be a (+) Quentity

(d) Estimate when the volume is changing at a rate of -1230 cm³/hr

FEC thanks to TI-94

7. a) 37,
$$7, 7, 7$$

Quad $70, 70, 70$
 $1 = 0 + 0 + 0$
 $(2, 1) \Rightarrow 1 = 0 + 0 + 0$
 $(2, 1) \Rightarrow 28 = q(1)^{2} + 6(1) + 1 \Rightarrow 46 = 27$
 $(2, 15) \Rightarrow 28 = q(1)^{2} + 6(1) + 1 \Rightarrow 46 = 27$
 $1 = -56 + 32 + 1$
 $1 = -56 + 32 + 1$
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 $1 = -66 + 32 + 1$
 $1 = -66 + 32 + 1$
 $1 = -6$



Mr lams data.84state

Mr. Lam has found himself in trouble with the law... he needs your help to defend his case!!

Complete Investigation 2: Page 85

- Do steps A E (Use TI-83 to plot data)
- Complete questions 1 8 at end of investigation

When completed return to page 85 and do the "Challenge Yourself" question

Mr lams data.84state