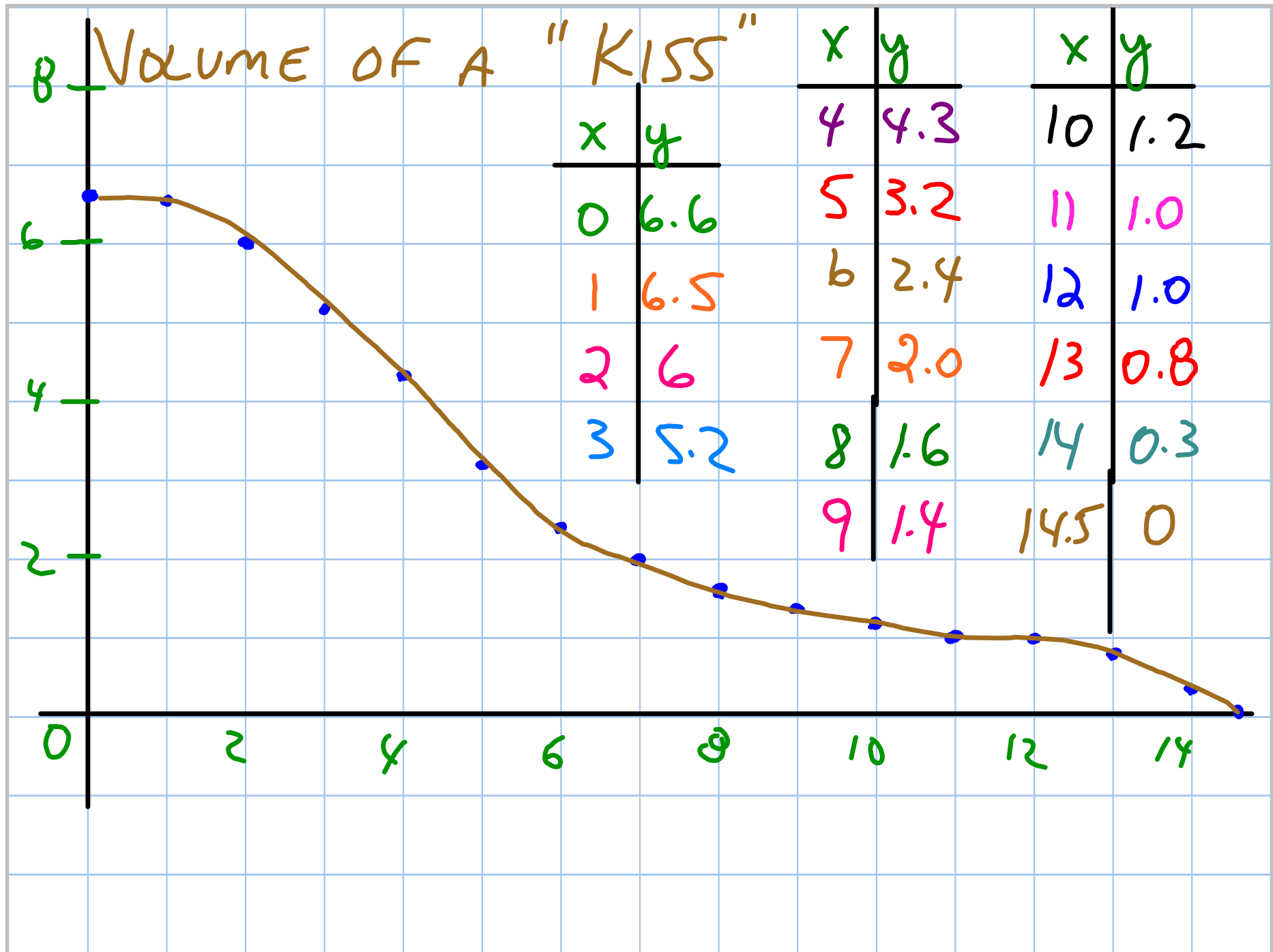


FRI 5-5-06

APPROXIMATE THE VOLUME
OF A KISS.

😊 (A HERSHEY'S KISS, THAT IS).

.



1- F2 F3 F4 F5 F6 F7

NEW

① Type: Data →
 Folder: main →
 Variable:
 X-axis division:
 Y-axis division:
 Enter=OK ESC=CANCEL

MAIN RAD AUTO FUNC

②

F1- Tools	F2 Plot Setup	F3 Cell	F4 Header	F5 Calc	F6- Util	F7 Stat
DATA						
	c1	c2	c3			
1	0	6.6				
2	1	6.5				
3	2	6.				
4	3	5.2				

r1c2=6.6

MAIN RAD AUTO FUNC

③

F1- Tools	F2 Plot Setup	F3 Cell	F4 Header	F5 Calc	F6- Util	F7 Stat
DATA						
	c1	c2	c3			
7	6	2.4				
8	7	2.				
9	8	1.6				
10	9					

r10c2=

④

F1- Tools	F2 Plot Setup	F3 Cell	F4 Header	F5 Calc	F6- Util	F7 Stat
DATA						
	c1	c2	c3			
11	10	1.2				
12	11	1				
13	12	1				
14	13					

r14c2=

MAIN RAD AUTO FUNC

⑤

F1- Tools	F2 Plot Setup	F3 Cell	F4 Header	F5 Calc	F6- Util	F7 Stat
DATA						
	c1	c2	c3			
13	12	1				
14	13	.8				
15	14	.3				
16	14.5	0				

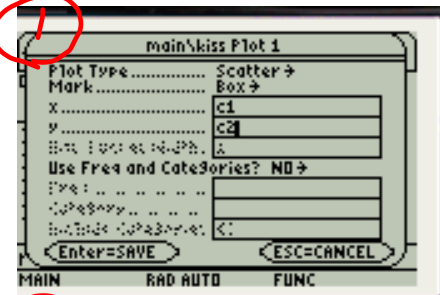
r13c2=1

MAIN RAD AUTO FUNC

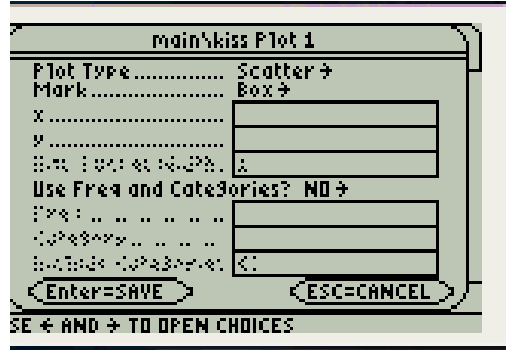
F2:



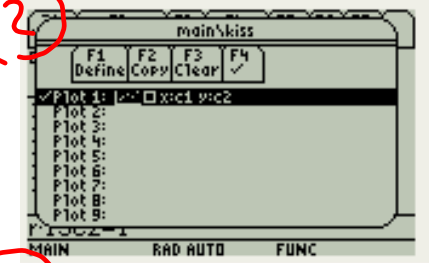
1



F1:



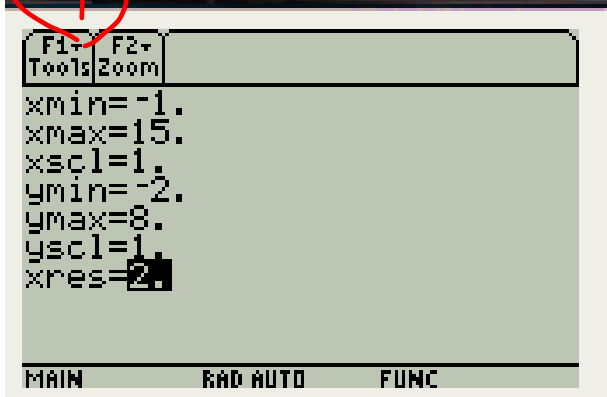
2

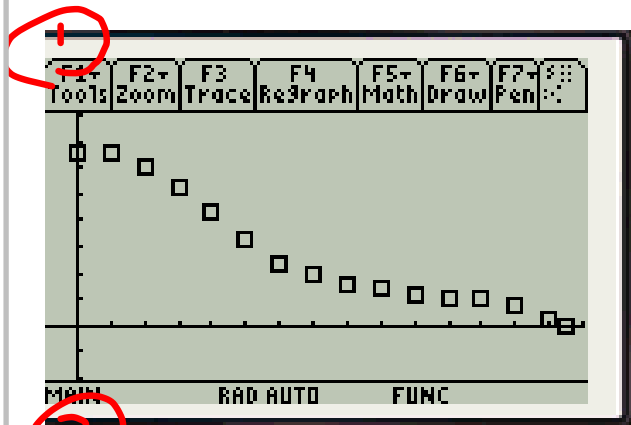


3



4





2

F1 Tools	F2 Plot Setup	F3 Cell Header	F4 Header	F5 Calc	F6 DIT	F7 Stat
DATA						
	c1	c2	c3			
13	12	1				
14	13	.8				
15	14	.3				
16	14.5	0				
r13c2=1						

MAIN RAD AUTO FUNC

3

main/kiss Calculate

Calculation Type... 3+CubicReg
 X.....
 Y.....
 Store ReSEQ to...
 Use Free and Categories?
 Eye:
 Category:
 Exclude Categories:

4:ExpReg
 5:LinReg
 6:LnReg
 7:MedMed
 8:PowerReg
 9:QuadReg
 10:QuartReg

Enter=SAVE ESC=CANCEL

TYPE OR USE ←+4 + [ENTER] OR [ESC]

4

main/kiss Calculate

Calculation Type... QuartReg →
 X..... c1
 Y..... none
 Store ReSEQ to... U1 (X)
 Use Free and Categories? U2 (X)
 Eye: U3 (X)
 Category: U4 (X)
 Exclude Categories: U5 (X)
 U6 (X)
 U7 (X)

Enter=SAVE CEL

MAIN RAD AUTO FUNC

5

main/kiss Calculate

Calculation Type... QuartReg →
 X..... c1
 Y..... c2
 Store ReSEQ to... ~~U1 (X)~~ →
 Use Free and Categories? NO →
 Eye:
 Category:
 Exclude Categories: C1

Enter=SAVE ESC=CANCEL

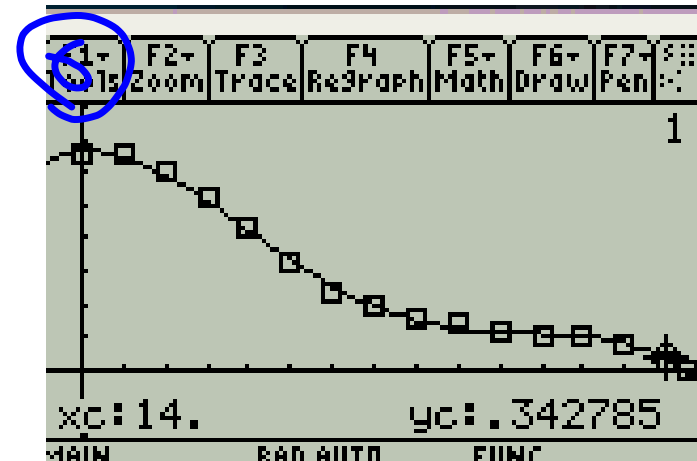
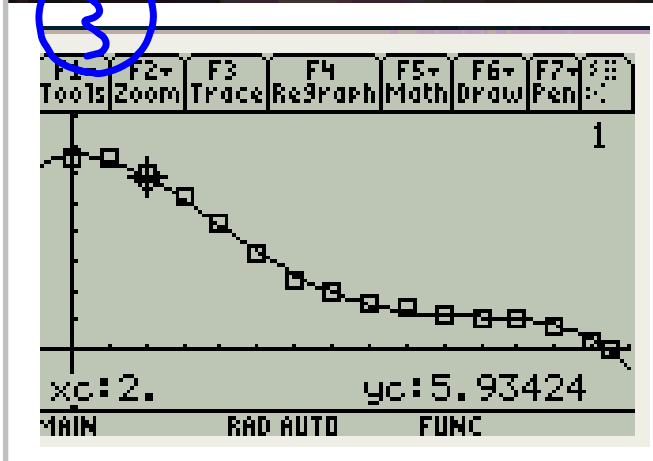
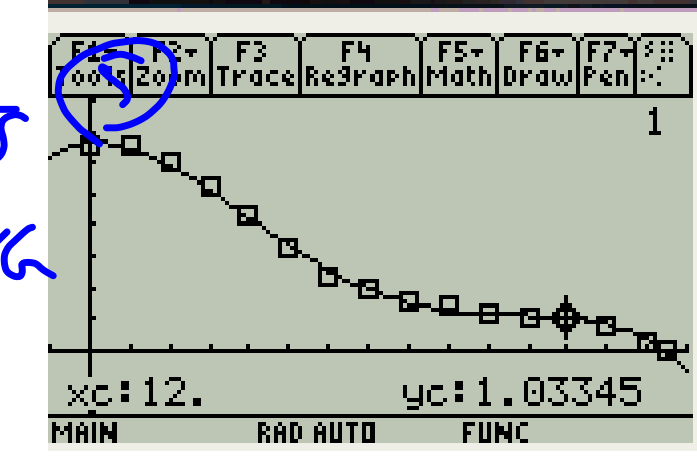
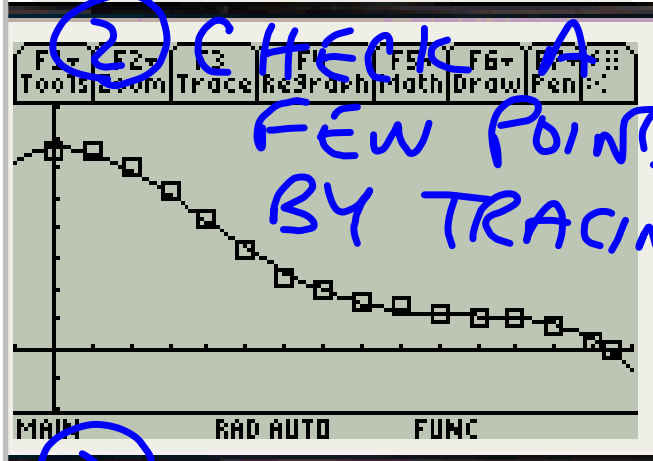
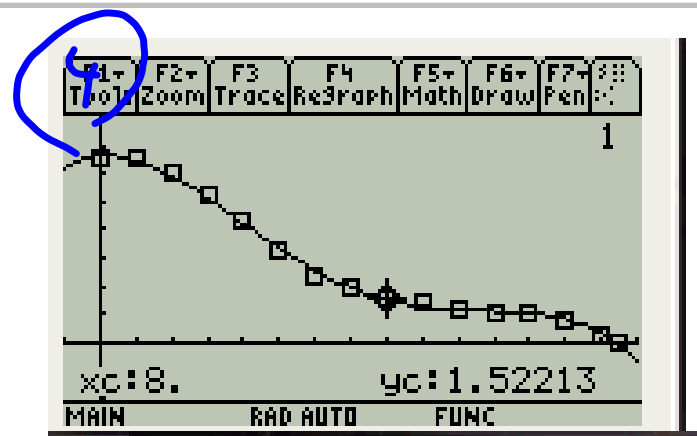
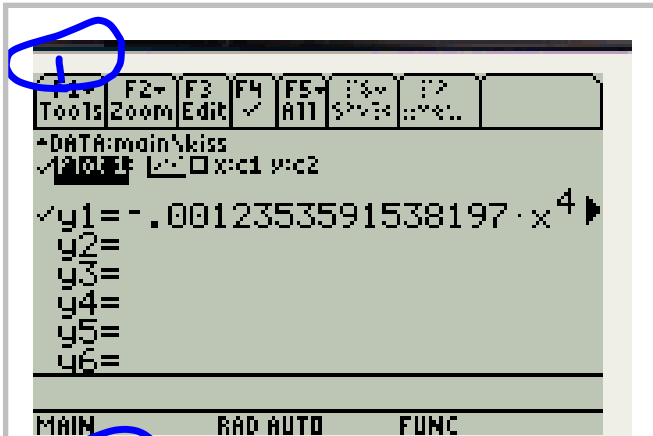
USE ← AND → TO OPEN CHOICES

6

F1 Tools	F2	F3	F4	F5	F6	F7
STAT VARS						
DATA	$y=a \cdot x^4 + b \cdot x^3 + c \cdot x^2 + d \cdot x + e$					
	a	=-.001235				
	b	=.036264				
	c	=-.306576				
13	d	=.124312				
14	e	=6.641579				
15	R ²	=.998431				
16						
r13c2						

Enter=OK

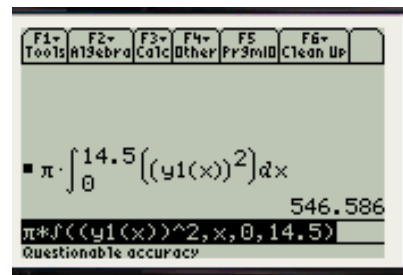
MAIN RAD AUTO FUNC



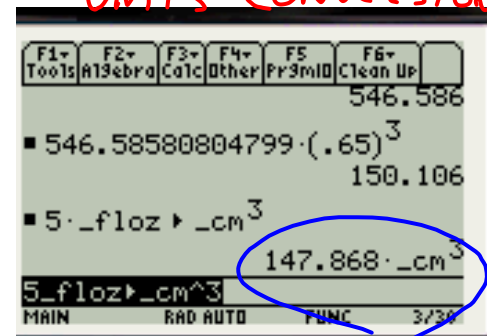
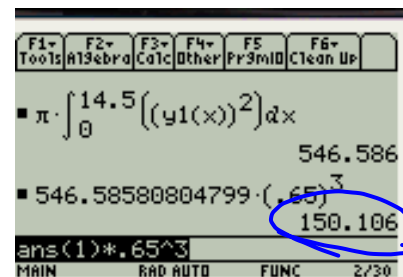
How CLOSE?

NOW THAT YOU HAVE AN EQUATION
 THAT "MODELS" THE DATA;
 GENERATE A DECENT APPROXIMATION
 TO THE VOLUME OF THE KISS.

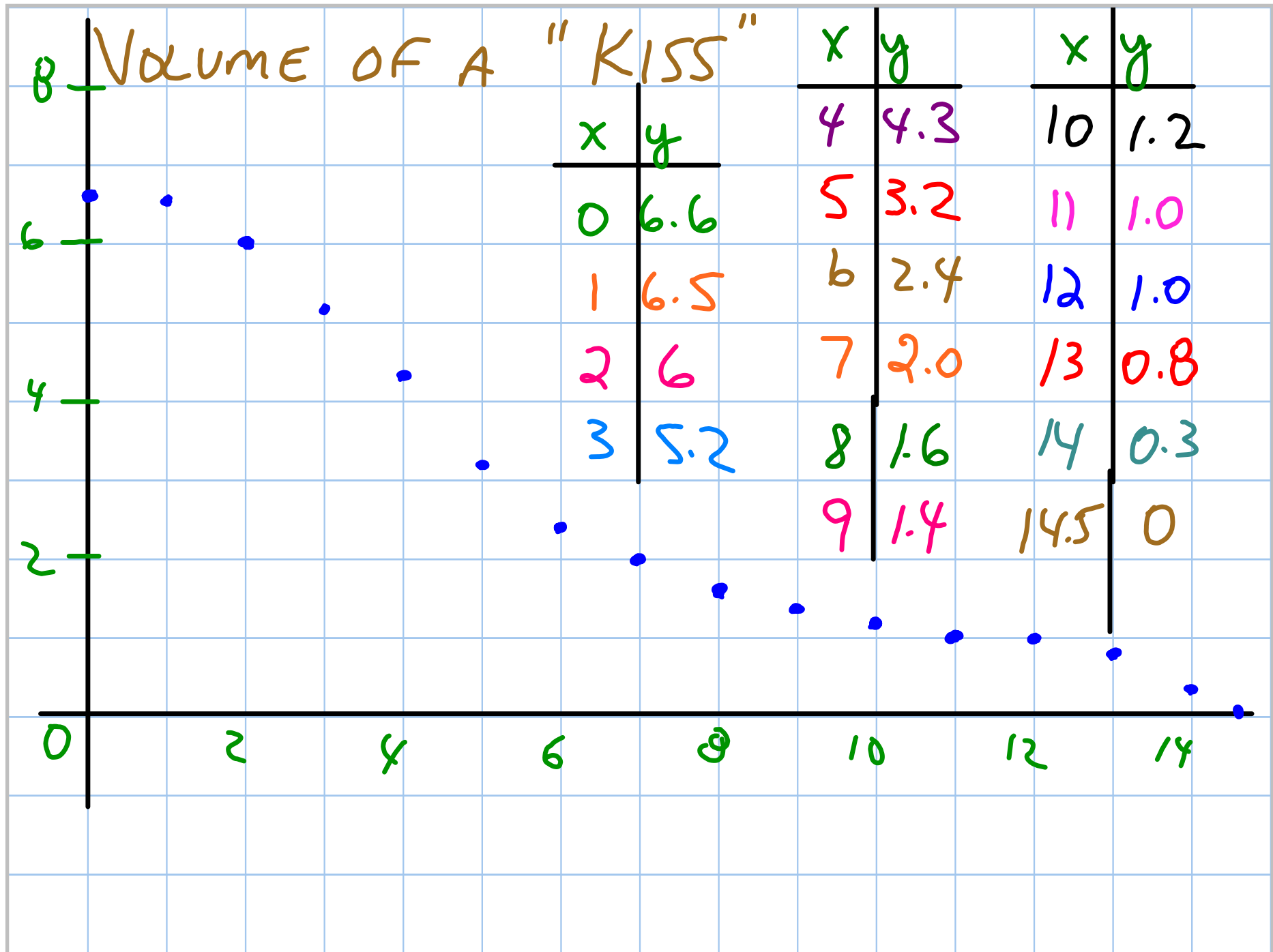
$$V = \pi \int_0^{14.5} (y_1(x))^2 dx$$



THE TI-89 DOES
 UNITS CONVERSION!



OH wow!



NO O.T.L.