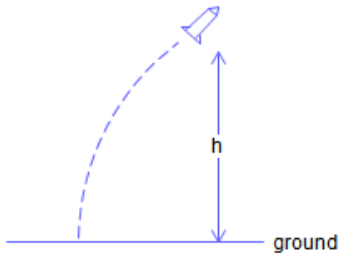
after t seconds is given by the following.

$$h = 47t - 5t^2$$

Find all values of t for which the rocket's height is 27 meters.

Round your answer(s) to the nearest hundredth.
(If there is more than one answer, use the "or" button.)



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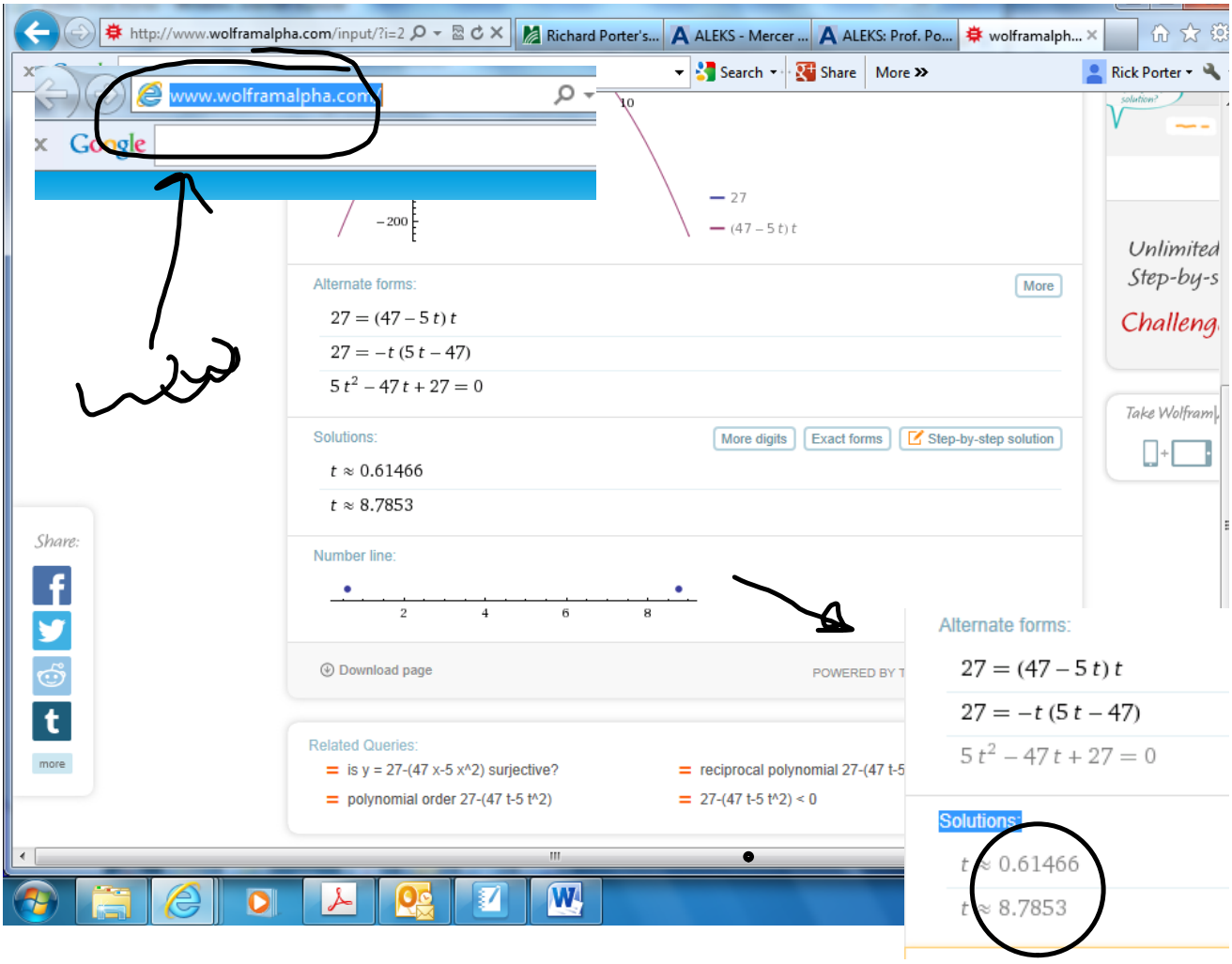
o find when the rocket's height is 27 meters, we substitute 27 for h and olve for t.

$$27 = 47t - 5t^2$$


http://www.wolframalpha.com/input/?i=2
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10
−200
27
(47 − 5 t) t
Alternate forms:
More
27 = (47 − 5 t) t
27 = −t (5 t − 47)
5 t^2 − 47 t + 27 = 0
Solutions:
More digits
Exact forms
Step-by-step solution
t ≈ 0.61466
t ≈ 8.7853
Number line:
2
4
6
8
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Related Queries:
is y = 27-(47 x-5 x^2) surjective?
reciprocal polynomial 27-(47 t-5
polynomial order 27-(47 t-5 t^2)
27-(47 t-5 t^2) < 0
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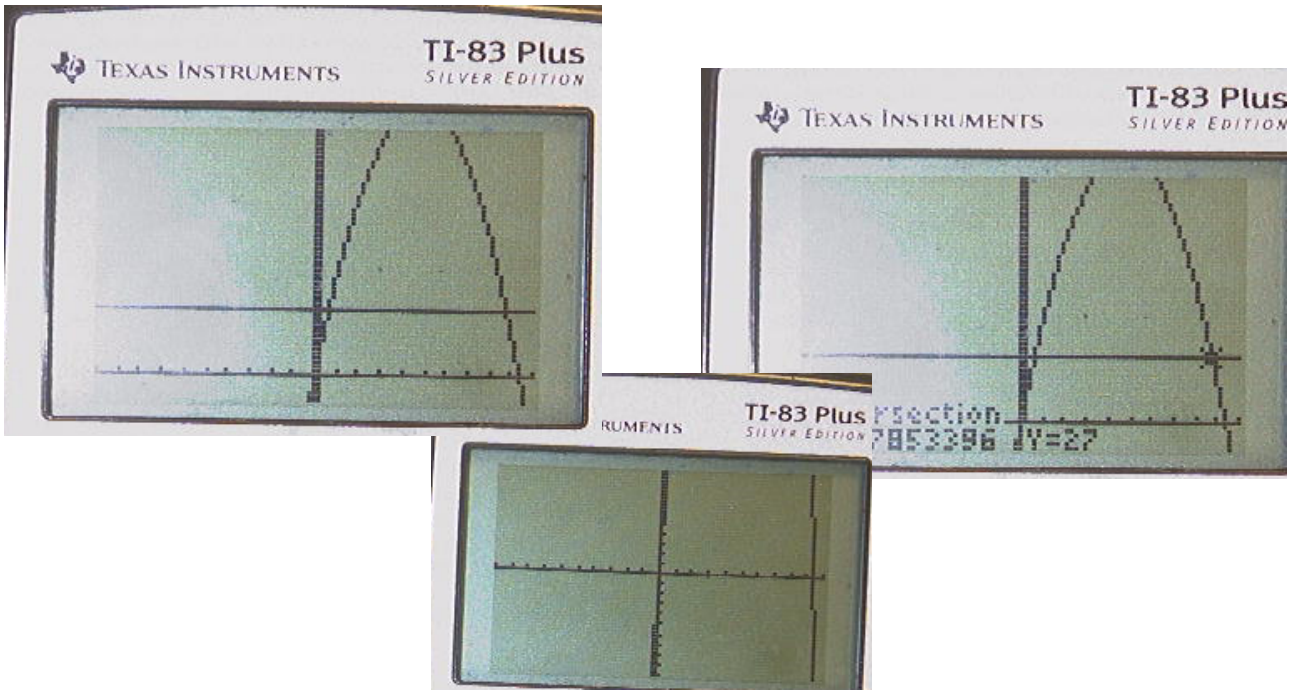
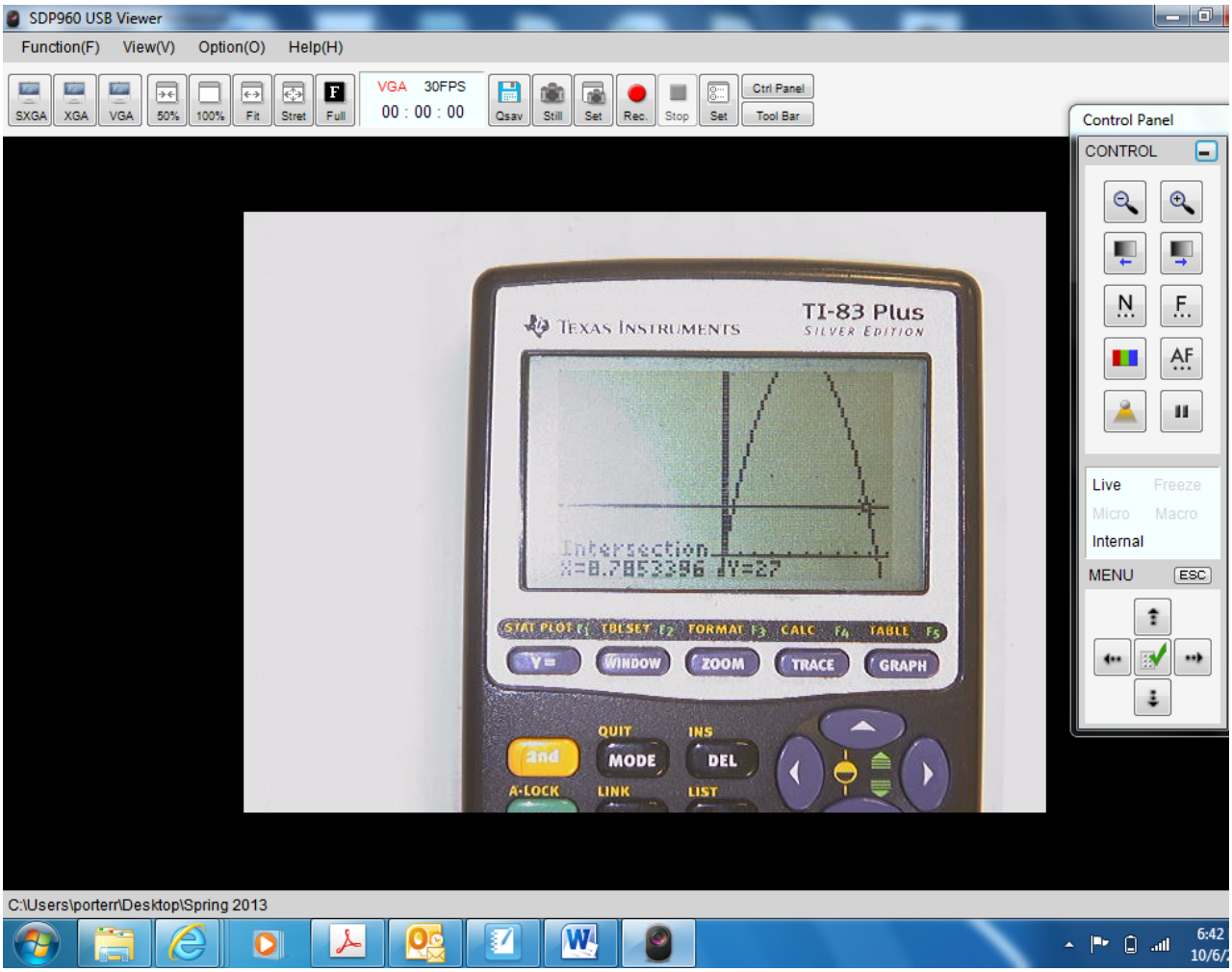
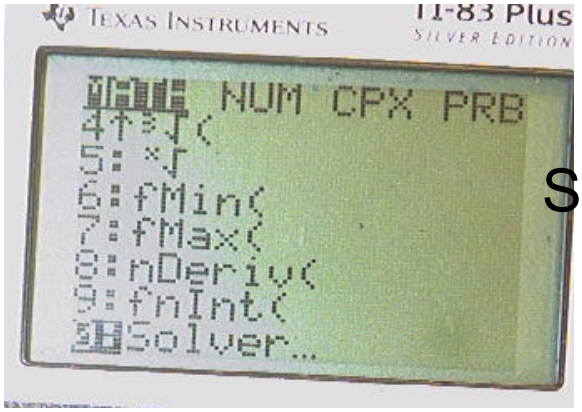
Challeng
Take Wolfram
Alternate forms:
27 = (47 − 5 t) t
27 = −t (5 t − 47)
5 t^2 − 47 t + 27 = 0
Solutions:
t ≈ 0.61466
t ≈ 8.7853

Intersection method

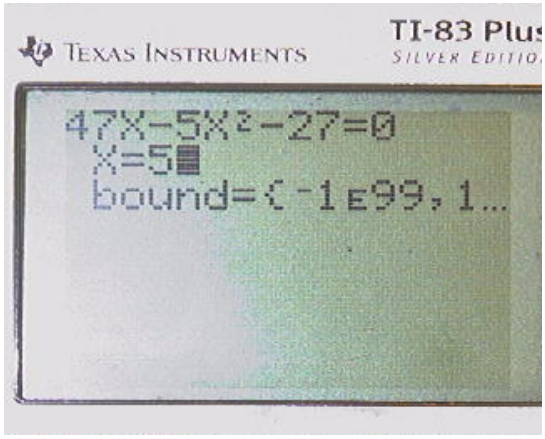




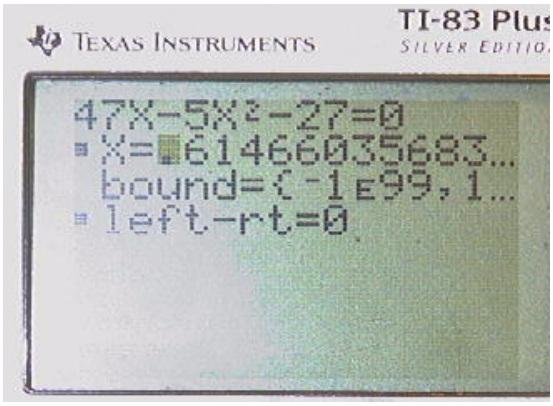


Solver Method

math 0:solver

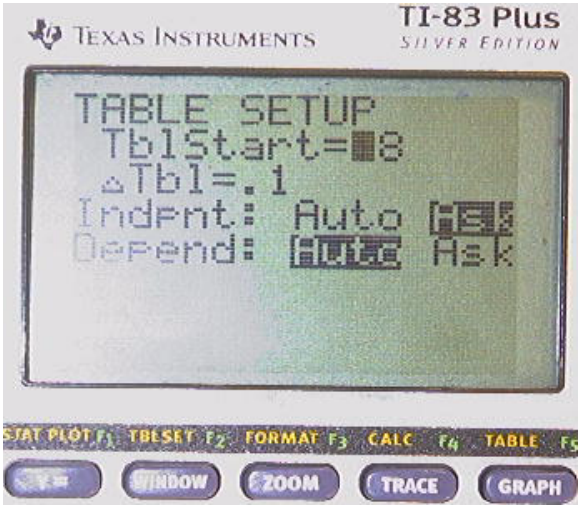


0=47x-5x^2-27

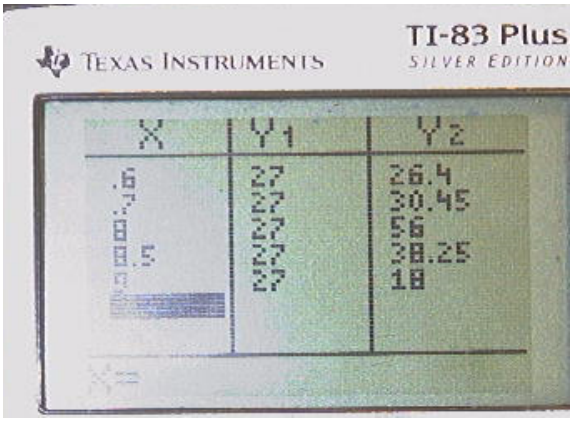


alpha enter = solve

problem...where's the second answer?



2nd window = tabset



Day 3 - Question #2;
Finding the maximum or minimum of a quadratic function

Answer the questions below about the quadratic function.

$$f(x) = -2x^2 - 12x - 19$$

Does the function have a minimum or maximum value?

○ Minimum ○ Maximum

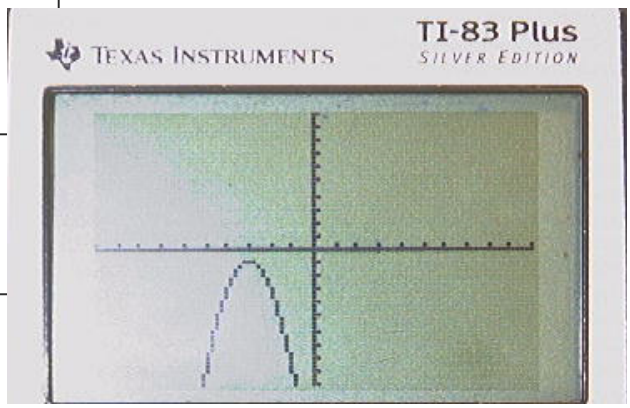
G

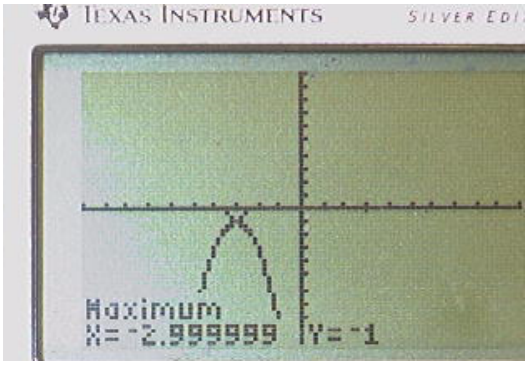
Where does the minimum or maximum value occur?

$x =$ -3

What is the function's minimum or maximum value?

-1





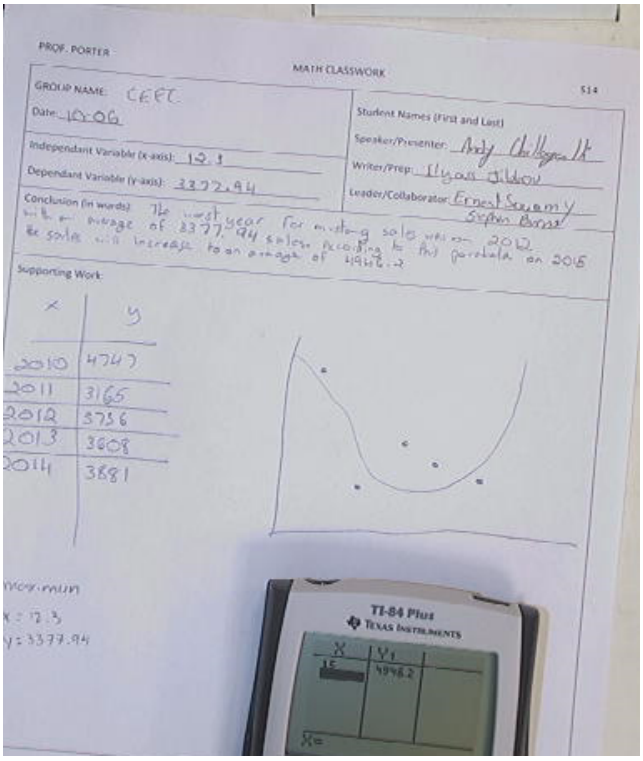
calc:4 MAximum

left:-5

Right:0

Guess:0 or enter

x=-2.999999



PROF. PORTER

MATH CLASSWORK

514

GROUP NAME: CEET

Date: 10-06

Student Names (First and Last)

Speaker/Presenter: Andy Challyon II

Writer/Prep: Ilyas Gildow

Leader/Collaborator: Ernest Squamy Stefan Burns

Independant Variable (x-axis): 12.3

Dependant Variable (y-axis): 3377.94

Conclusion (in words): The worst year for mustang sales was in 2012 with an average of 3377.94 sales according to this parabola. In 2015 the sales will increase to an average of 4996.2

Supporting Work:

x	y
2010	4747
2011	3165
2012	3756
2013	3608
2014	3881

x = 12.3

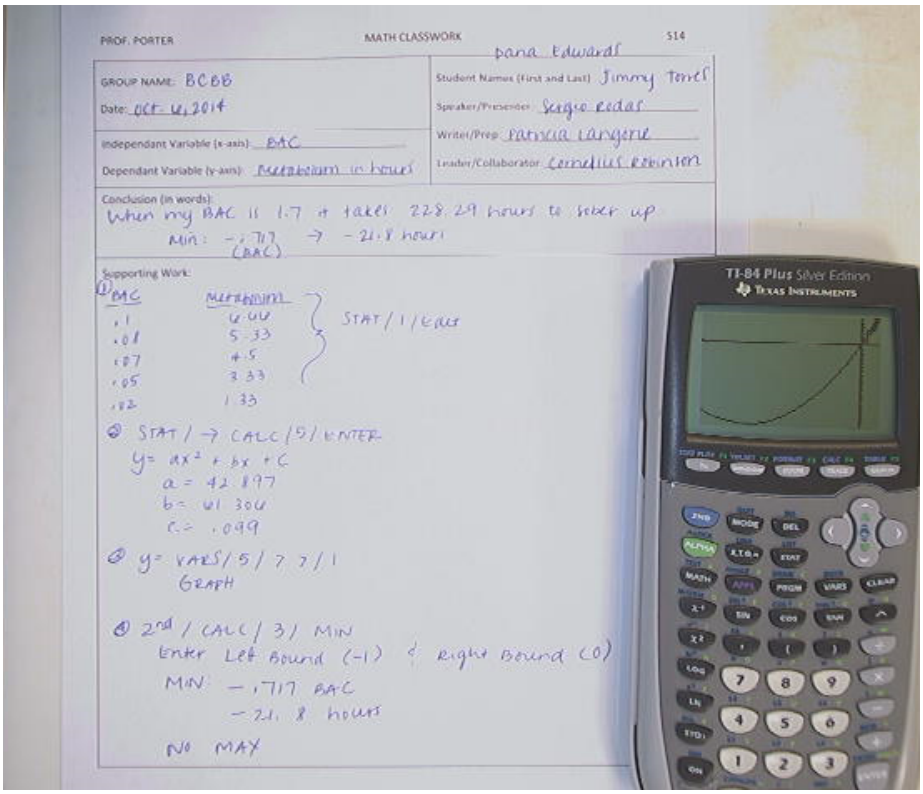
y = 3377.94

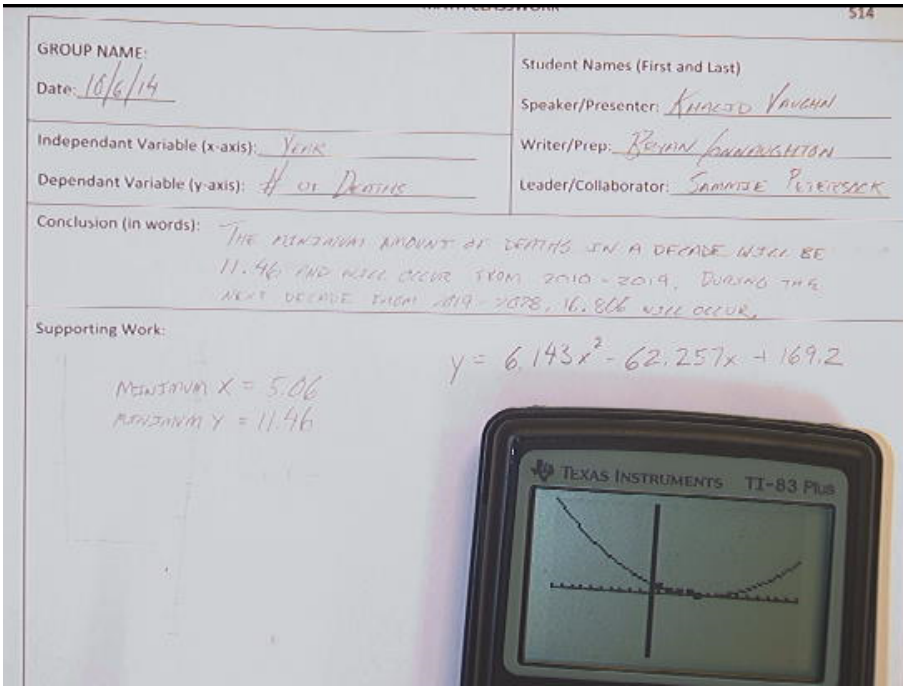
TI-84 Plus

Texas Instruments

X | Y1

15 | 4996.2


PROF. PORTER
MATH CLASSWORK
514
GROUP NAME: BCBB
Date: Oct 6, 2014
Student Names (First and Last): Jimmy Tenes
Speaker/Presenter: Sergio Rodas
Writer/Prep: Patricia Larysenè
Leader/Collaborator: Cornelius Reunion
Independant Variable (x-axis): BAC
Dependant Variable (y-axis): Minutes in hours
Conclusion (in words):
When my BAC is 1.7 it takes 228.29 hours to sober up
Min: -.717 (BAC) → -21.8 hours
Supporting Work:
BAC
Minutes
.1
.01
.07
.05
.02
6.66
5.33
4.5
3.33
1.33
STAT / 1 / Edit
STAT / → CALC / 5 / ENTER
y = ax² + bx + c
a = 42.897
b = 61.306
c = .099
y= VARS / 5 / 7 / 1
GRAPH
2nd / CALC / 3 / MIN
Enter Left Bound (-1) & Right Bound (0)
MIN -.717 BAC
-21.8 hours
NO MAX
TI-84 Plus Silver Edition
Texas Instruments



514

GROUP NAME:

Date: 10/6/14

Student Names (First and Last)

Speaker/Presenter: KHALID VAUGHAN

Writer/Prep: KEVIN CANNINGTON

Leader/Collaborator: SAMMIE PETERSACK

Independant Variable (x-axis): YEAR

Dependant Variable (y-axis): # OF DEATHS

Conclusion (in words): THE MINIMUM AMOUNT OF DEATHS IN A DECADE WILL BE 11.46 AND WILL OCCUR FROM 2010 - 2019. DURING THE NEXT DECADE FROM 2019 - 2028, 16.806 WILL OCCUR.

Supporting Work:

$y = 6.143x^2 - 62.257x + 169.2$

MINIMUM X = 5.06

MINIMUM Y = 11.46

TEXAS INSTRUMENTS TI-83 Plus