


<p>GROUP NAME: <u>Protein</u></p> <p>Logo: </p>	<p>Student Names (First and Last) <u>Rob Bob con on the cob</u></p> <p>Speaker/Presenter: <u>Connor Kraysman</u></p>
<p>Date: <u>3/26/13</u></p> <p>Topics: <u>Protein</u></p>	<p>Writer/Prep: <u>Bobby O'Connor</u></p> <p>QC/Leader: <u>Robert Greysman</u></p>

Instructions:

8

Q. What is precalculus?

A. - The study of functions

Q. How does data in your field become an equation

~~A. - Relates to the sets of numbers in a machine~~

A. - Statistical regressions ~~and the years~~

Q.

<u>year</u>	<u>Sales in millions</u>	<u>Exponential Function</u>
1 1	3	$2.2 \cdot 1.3^x$
3 3	4	
5 5	8	

- Stat edit → enter data → Stat calc → Exponential Regression

- when will sales reach 7 million = $y = 7$, 2nd calc, Intersect, enter, enter

4.73

Pick 05 CLASS !!

GROUP NAME: <u>Team Awesome</u> Logo: Date: _____ Topics:	Student Names (First and Last) Speaker/Presenter: _____ Writer/Prep: <u>Quay Jackson</u> QC/Leader: <u>William Smith</u>
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Instructions:

What is pre calculus?
 Study of functions

How does data turn for into become an equation?
 - Use calculator to make a regression

Exponential function

Y: 2, 10, 4, 8, 15, 27, 48, 80, 128
 STAT, EC (enter data), STAT → CALC 0
 Graph and use intersection method

L ₁	L ₂
1	3
3	4
5	8

Graph and use intersection method

y¹ = reg Equation

I ♥ MATH

Vars. 5 =>

y₂ = 7
 CALC: 5

GROUP NAME: <u>BOSS</u>	Student Names (First and Last)
Logo: <u>BO \$\$</u>	Speaker/Presenter: <u>Rifa Y.</u>
Date: <u>3-26-13</u>	Writer/Prep: <u>Tiguan Giddens</u>
Topics: <u>midterm practice</u>	QC/Leader: <u>Kevin Enriquez</u>

Instructions: Do #9

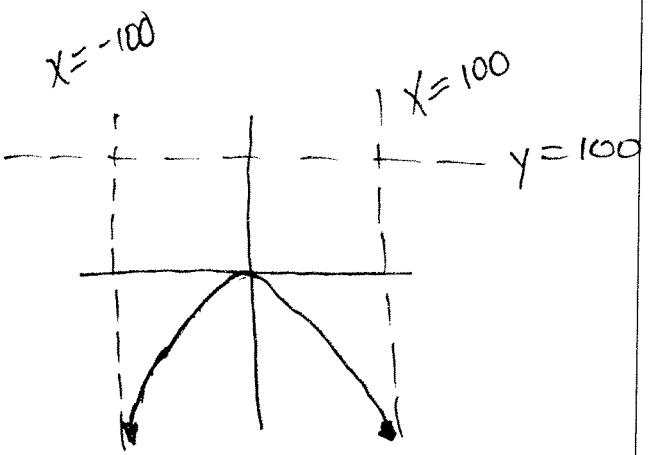
#9

$$\frac{100x(x-.01)}{(x-100)(x+100)}$$

Horizontal asymptotes: $y=100$

Vertical asymptotes: $x=100, x=-100$

X intercepts: $(0,0)$



I  Math 

GROUP NAME: ?

Logo:

Date: 3-26-13

Topics:

Student Names (First and Last)

Speaker/Presenter: Jash Galyb

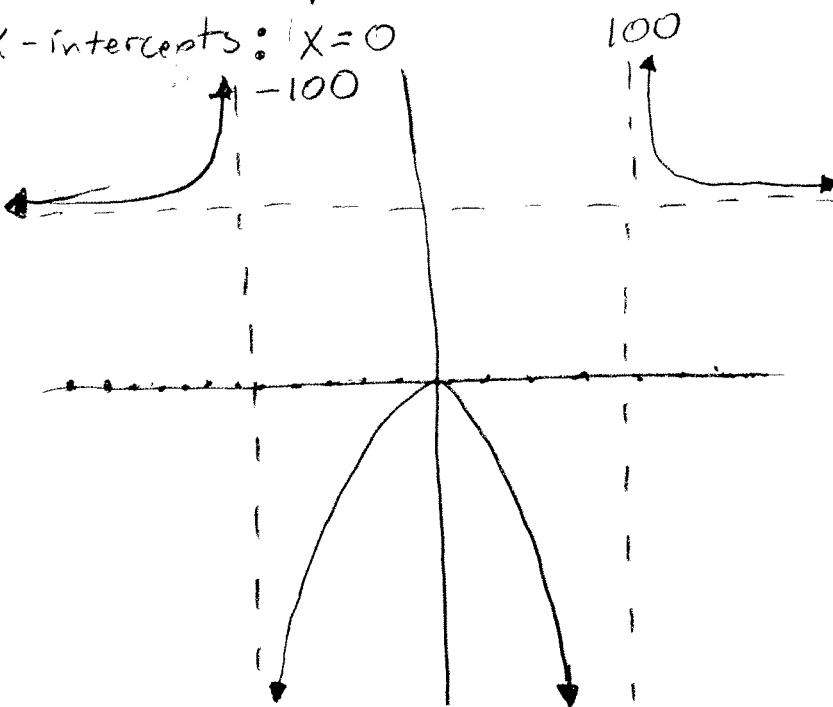
Writer/Prep: Michael Torres

QC/Leader:

Instructions:

Q. #9

Horizontal asymptote: 100, 0
 Vertical asymptote: -100, 100
 X-intercepts: $x=0$



$$S = \frac{100x^2 - x}{x^2 - 10,000}$$

Vertical Asymptote ↓
 $0 = (x+100)(x-100)$
 $x = -100, 100$

Horizontal Asymptote

$DN = 2$

$DD = 2$

$HA = \frac{LN}{LD} = \frac{-100}{1}$

$y = 100$

GROUP NAME:	Student Names (First and Last)
Logo: B^3	Speaker/Presenter: Courtney Grubb
Date: 03/26/13	Writer/Prep: Mallory Salay
Topics:	QC/Leader: Trey Merrill

Instructions: #10 $f(x) = -2x^2(x-1)$
 0, 0, 1

$$R(p) = -250,000p^2(p - 1.25 \times 10^{-8})$$

- Where does the graph touch & not cross the x-axis? $(0,0)$

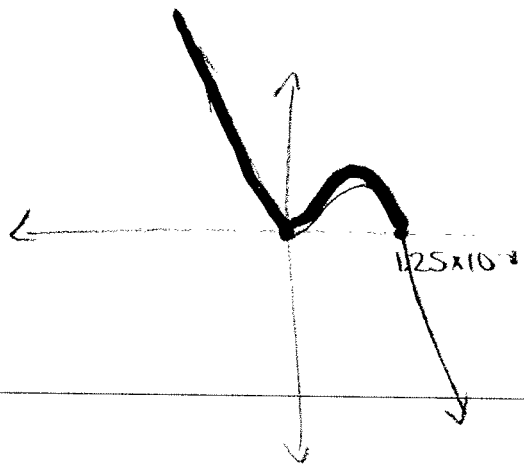
$$\frac{-250,000p^2}{-250,000} = 0$$

$$p^2 = 0$$
- Where does the graph cross through the x-axis? $(1.25 \times 10^{-8}, 0)$

$$p - 1.25 \times 10^{-8} = 0$$

$$p = 1.25 \times 10^{-8}$$
- When is the function positive? $(0, 1.25 \times 10^{-8})$
 work: see graph or $(-\infty, 1.25 \times 10^{-8})$
- What is the degree? 3
- Imaginary roots: how many? 0, 2, 4, ... Degree of Poly.

Price Not Neg.



odd degree
 neg coefficient
 disco left

GROUP NAME: <u>Scientistzzz</u>	Student Names (First and Last)
Logo:	Speaker/Presenter: <u>Sabella L</u>
Date: <u>3/26/13</u>	Writer/Prep: <u>Alyssa B</u>
Topics:	QC/Leader: <u>Nicole P</u>
	<u>Kaitlin M</u>

Instructions: Midterm Review Q#17

Suppose you make \$60,000 at your new job and you have a choice of investments. You can get a CD ^{two} compounded monthly (n=12) at Fleet Bank for 2.2% - OR - you can invest in Sovereign Bank with rate of 2.19% (compounded continuously). (Which of these choices) will you have the most amount of money after 12 years?

P = amount after time
 Q = initial
 r = rate
 n = 12
 t = 1 (time)
 # of times interest is compounded

A = amount after time
 P = Initial amount
 r = rate (variable)
 t = number of years

Fleet

$$P = Q \left(1 + \frac{r}{n}\right)^{nt}$$

$$P = 60,000 \left(1 + \frac{0.022}{12}\right)^{12(1)}$$

$$\approx \$61,333.39$$

Sovereign (continuous)

$$A = Pe^{rt}$$

$$r = \frac{2.19\%}{100} = 0.0219$$

$$A = 60,000 e^{0.0219}$$

$$\approx \$61,328.49$$



GROUP NAME: <u>Corn / Troy</u>	Student Names (First and Last)
Logo:	Speaker/Presenter: <u>Corn</u>
Date: _____	Writer/Prep: <u>Troy G</u>
Topics:	QC/Leader: <u>Corn / Troy G</u>

Instructions:

12. A certain radiation amount is shown to have a half-life of 400 hours. Assuming exponential decay, what is the decay rate?

$$P = Qe^{r \cdot t}$$

$$250 = 1000e^{400r}$$

↓
calc (used solver)

↓

$$r = -.0034$$

Solver input: $(1000(e^{(400r)})) = 250$
Solve for r and get $-.0034$

How long will it take 1000 radiation amounts to drop to 250?

$$250 = 1000e^{(-.0034T)}$$

↓
calc (used solver)

↓

$$T = 407.73$$

Solver input: $(1000(e^{(-.0034T)})) = 250$
Solve for T and get 407.73

How long will it take 1000 amounts to drop to the undetectable amount of .1?

$$.1 = 1000e^{(-.0034T)}$$

↓
(used solver) calc →

$$T = 2708.92$$

Solver input: $(1000(e^{(-.0034T)})) = .1$

Solve for T and get 2708.92

GROUP NAME: <u>32111</u>	Student Names (First and Last)
Logo:	Speaker/Presenter: <u>Kayla James</u>
Date: <u>8/25/15</u>	Writer/Prep: <u>Shivam Singh</u>
Topics:	QC/Leader: <u>Hunter Al</u>

Instructions: 13

13 Follow the work and describe the property?

a.) $\log_3(x) + \log_3(x-1) = \log_3(5)^2$
 Property \rightarrow ~~② sum & product property~~ / ③ Ladder property.

b.) $\log_3(x) + \log_3(x-1) = 2 \log_3(5)$
 Property \rightarrow ② sum & product property.

c.) $\log_3((x)(x-1)) = 2 \log_3(5)$
 Algebra.

d.) $\frac{\log_3((x)(x-1))}{\log_3(5)} = 2$
 Property \rightarrow ④

e.) $\log_5((x)(x-1)) = 2 \cdot [2 = \log_5((x)(x-1))]$
 Property \rightarrow ①

f.) $x(x-1) = 5^2$

Which answer makes sense? why? --- 13 MATH

$x = -4.52$
 $x = 5.52$