

YR	World Pop
1950	2.556
1960	3.039
1970	3.706
1980	4.453
1990	5.270
2000	6.082

CALC 7: $\int f(x) dx$

Lower 1900
Upper 2014

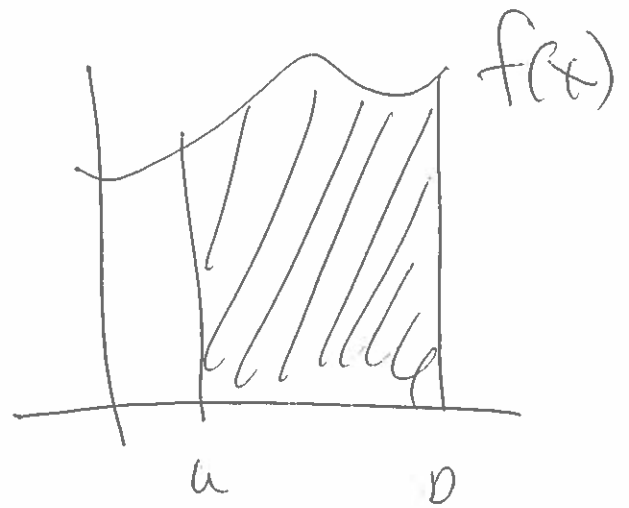
358 billion people · yrs

$$\frac{358}{35.8} \frac{\text{people yrs}}{\text{yrs}} = 10 \text{ people.}$$

AREA

under a
curve
between two
Points

$$\int_a^b f(x) dx$$

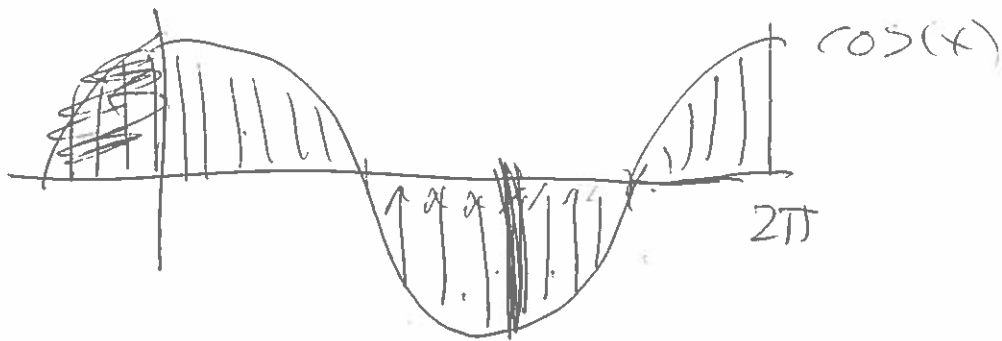


Definite
integral.

these are
numbers.

$$F(x) = \int_a^x f(x) dx$$

Area under
 $f(x)$ between
 a and x



Area under
 $\cos(x)$ between
 0 & 2π

$$= \int_0^{2\pi} \cos(x) dx = 0$$

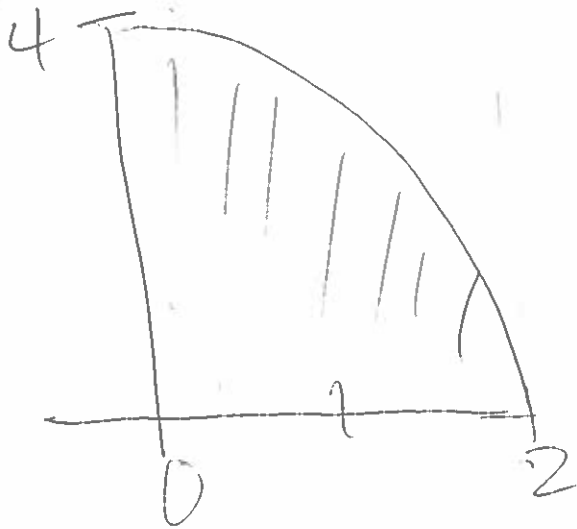
$$y_1 = \cos(x)$$

Calc 7: $\int f(x) dx$

Lower: 0

Upper: 2π

$$\int f(x) dx = 0$$

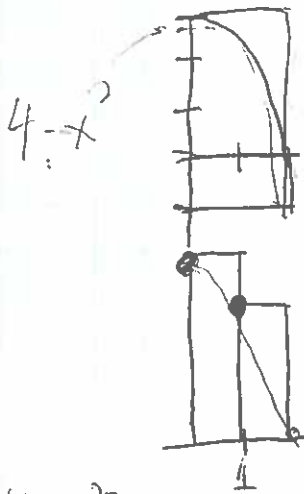


$$y = 4 - x^2$$

$$\int_0^2 (4 - x^2) dx =$$

Area

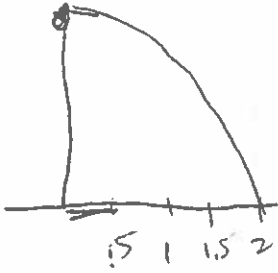
$$= 8 - 2 \times 4$$



4 rectange = 8 = 4×2

2 rectangl
 $4 + 3 = 7$ = $4 \times 1 + 3 \times 1$

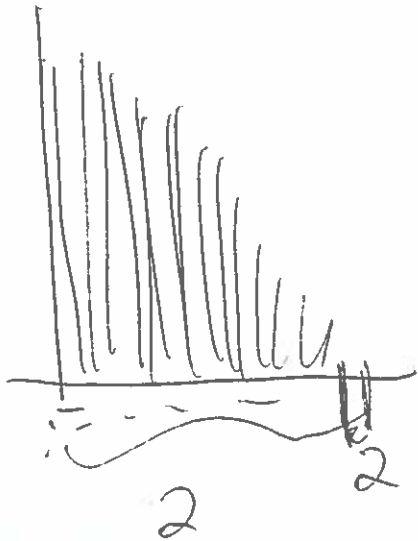
x	$4 - x^2$
0	4
0.5	3.75
1	3
1.5	1.75
2	0



$$4 \times 0.5 + 3.75 \times 0.5 + 3 \times 0.5 + 1.75 \times 0.5$$

$$\frac{2}{4} = 0.5 (4 + 3.75 + 3 + 1.75)$$

Δx Sum =

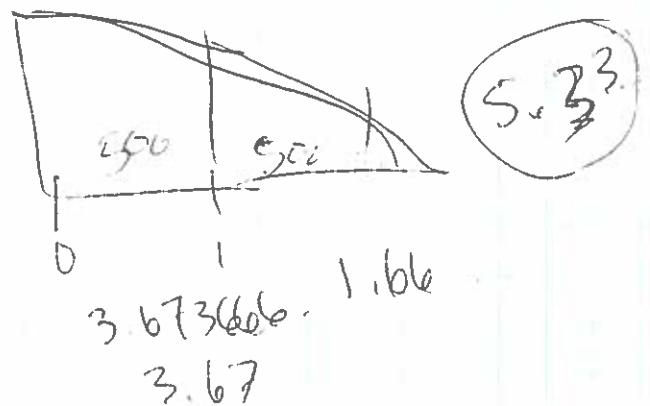


$$\text{Sum}(\text{seq}(4 - x^2, x, 0, 1.5, 0.5))$$

$$0.5 \times 12.5 = 6.25$$

$$\Delta x = \frac{2}{1000} = 0.002$$

$$0.002 \times \text{Sum}(\text{seq}(4 - x^2, x, 0, 1.990, 0.002))$$



GROUP NAME: <u>Wolf Pack</u>	Student Names (First and Last)
Logo:	Speaker/Presenter: _____
Date: <u>11/6/13</u>	Writer/Prep: <u>Tared</u>
Topics:	QC/Leader: <u>DC</u>

Instructions:

Quad

$$157.0432276657x^2 + -30705.682997117x + 1500520.2824207$$


$$\boxed{25529.587 \text{ kb/s}} \cdot \boxed{9 \text{ years}}$$

$$\text{Lower Limit} = 96 = 1996$$

$$\text{Upper Limit} = 106 = 2006$$

The speed of the internet
is $25.5 \text{ mb/s} \cdot \text{years}$

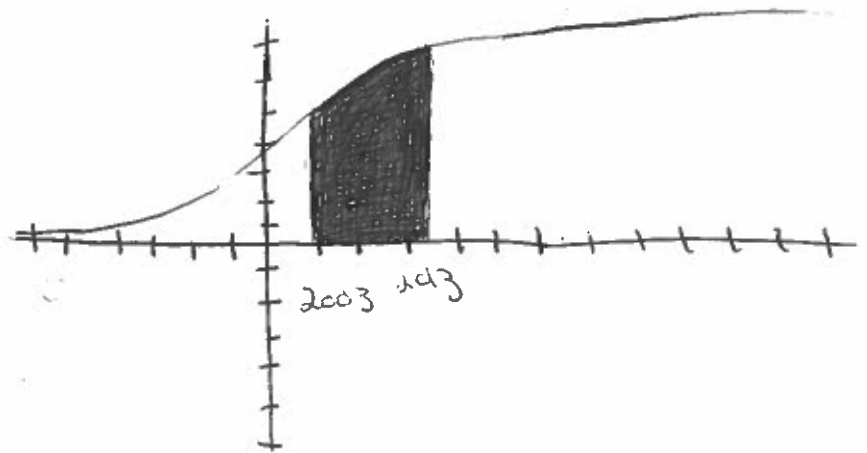


<p>GROUP NAME: IRISH MATH BOMBS</p> <p>Logo: </p>	<p>Student Names (First and Last)</p> <p>Speaker/Presenter: <u>Bobby O'Connor</u></p>
<p>Date: _____</p> <p>Topics: _____</p>	<p>Writer/Prep: <u>Connor Krusman</u></p> <p>QC/Leader: <u>Devce Billgalow MAtE giga</u> <u>... Simon</u></p>

Instructions:

x	y
3	13
5	15
7	16
9	19
11	20
13	21

$$y = 25.74 / (1 + 1.569e^{-1.525x})$$



price of PBR over the years

$$\int f(x) dx = 176.17959 \text{ \$ } \times \text{ years}$$

lower limit $x = 2.8$ $y = 12.75$

upper limit $x = 13$ $y = 21.17$

average a year

$$17.6 \text{ \$ } = \frac{176.17 \text{ \$}}{10 \text{ years}}$$

<p>GROUP NAME: <u>The factors</u></p> <p>Logo:</p>	<p>Student Names (First and Last)</p> <p>Speaker/Presenter: <u>Ethan Stewart</u></p>
<p>Date: <u>11/6</u></p> <p>Topics:</p>	<p>Writer/Prep: <u>Brian Blakey</u></p> <p>QC/Leader: <u>[unclear]</u></p>

Instructions:

X axis: Year
 Y axis: Cost in billions



at cubic levels
 [unclear] [unclear]: ?

lower level: 1950
 Upper level: 2000

$$f(x) = 188.571436 \text{ billion } \cdot \text{years}$$

Total money spent on [unclear] over a 50 year period from 2000

$$188.571436 \cdot 50$$

per year

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

Instructions:


level
of hunger

10015

150

level

10015

GROUP NAME: <u>Mathletes</u> Logo: 	Student Names (First and Last) Speaker/Presenter: <u>Kyle Turiso</u>
Date: <u>11/6/13</u> Topics:	Writer/Prep: <u>Alissa Colton</u> QC/Leader: _____

Instructions:

X axis - years

Y axis - grade

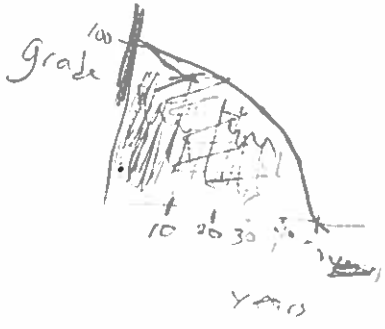
95
 90
 85
 80
 75
 70
 65

100
 95
 90
 85
 80
 75
 70
 65

379

4.9 50 11/6 - grade
 11850

= 379



Total grade over 50 years
 is 379.

GROUP NAME: Time Is Money

Student Names (First and Last)



Speaker/Presenter: Angelika Mazurek

Writer/Prep Shiv Singh

QC/Leader: Eugenio Pelaez

Date: 11/6/13

Topics: Logarithm

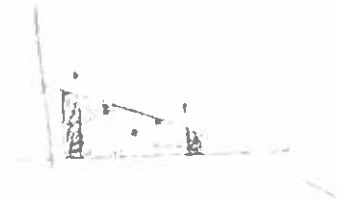
Instructions:

Sale of IPHONE 4S

TAT CALC

4th Lin Reg

Graph



$Y = Lin Reg$

Tr. Sale

7 9 0 1

power = 0.5

diff = 0.5

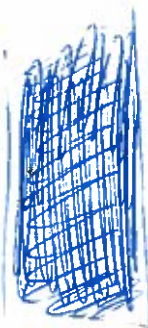
1579

$$\frac{1579}{5} = 315.8$$

Total sale of IPHONE 4S = 1579

<p>GROUP NAME: <u>the ...</u></p> <p>Logo:</p>	<p>Student Names (First and Last)</p> <p>Speaker/Presenter: <u>Kirsten Hendrickse</u></p>
<p>Date: _____</p> <p>Topics: _____</p>	<p>Writer/Prep: _____</p> <p>QC/Leader: _____</p>

Instructions:



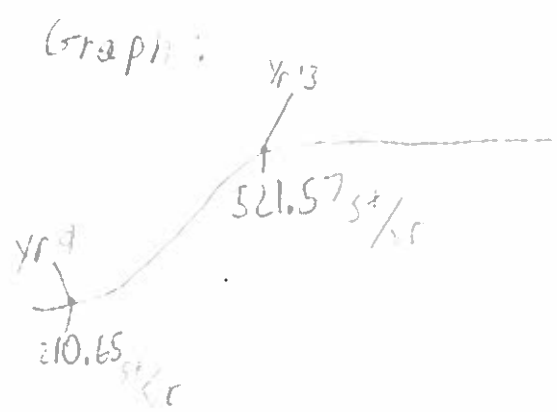
years | animals

1 1
 2 2
 3 3
 4 4

between 2008 and 2013

<p>GROUP NAME: <u>CSC</u></p> <p>Logo: </p>	<p>Student Names (First and Last)</p> <p>Speaker/Presenter: <u>Cornelia [unclear]</u></p>
<p>Date: _____</p> <p>Topics: <u>11.2.2</u></p>	<p>Writer/Prep: <u>[unclear]</u></p> <p>QC/Leader: <u>Stephan - math</u></p>

Instructions:



$\int f(x) dx = 1627.8 \$$ Lower: yr 4
Upper: yr 3

Over 4 years our stock price was a total of 1627.8 dollars yrs

$\frac{1627.8 \$ \cdot yrs}{4 yrs} = 406.95 \$$