Integral $\int f(x)\,dx$

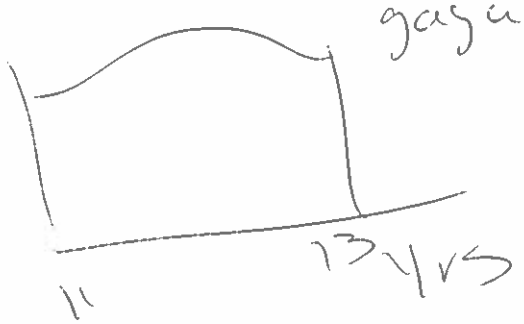
$Y_1$ = reg Eq.

$Y_2 = Ax^{\wedge}3/3 + Bx^{\wedge}2/2 + Cx$

$Y_2 = \int f(x)\,dx = F(x)$

$Y_2(b) - Y_2(a)$

Area under f(x) and between a & b =




gaga revenue

= $26.3 bill

for past years, gaga made $26.3 bill

PROF. PORTER

MATH CLASSWORK

| GROUP NAME: Time Is Money | Student Names (First and Last) |
|---|---|
| Logo: | Speaker/Presenter: Angelika Mazurek |
| | Writer/Prep Shiv Singh |
| Date: 11/11/13 | QC/Leader: Eugenio Pelaez |
| Topics: | |

Instructions:

Sale of IPhone 4S

$Y_1$ = Quad Reg

$Y_2$ = fnInt($Y_1$, x, 1, x)

$Y_2(5) - Y_2(1) = 7287.2$

3rd Sale 7:

$= 7287.2$

Lower Limit 1

Upper Limit = 5.

Area under f(x) Between 1 and 5 is equal to the difference between $Y_2(5) - Y_2(1)$.

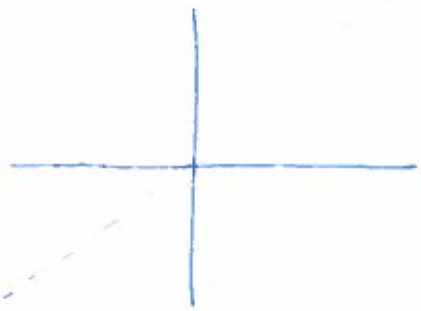
7287.2 dollar Years

| | |
|---|---|
| **GROUP NAME:** The Scientists | **Student Names (First and Last)** |
| **Logo:** | **Speaker/Presenter:** [illegible] |
| **Date:** 11-11-13 | **Writer/Prep:** Kiersten Hendricksen |
| **Topics:** | **QC/Leader:** Nicole Donnell |

**Instructions:**

$y_1 = -4.96478x^2 + 130.99x + 33.70$

$y_2 = -4.96478x^3/3 + 130.99^2/2x + 33.70x$



| x | $y_2$ |
|---|---|
| 9 | 76313 |
| 13 | 108336 |

From 2009 - 2013

32024 animal years

| | |
|---|---|
| **GROUP NAME:** Mathletes | **Student Names (First and Last)** |
| **Logo:** | **Speaker/Presenter:** Aidan C |
| **Date:** [illegible]/2013 | **Writer/Prep:** Logan H |
| **Topics:** Antiderivative | **QC/Leader:** Aidan C / Logan H |

**Instructions:**

$$y_1 = Ax^3 + bx^2 + Cx + d$$

$$y_2 = \frac{Ax^4}{4} + \frac{bx^3}{3} + \frac{Cx^2}{2} + dx + e$$

| | x | $y_1$ | $y_2$ |
|---|---|---|---|
| Start | 5 | 99,432 | 68,057 |
| Finish | 10 | 4,6349 | 3978 |

$$3978 - 68,057 = 329,743$$

2 calc 7 $y_1(5/10) = 329,743$

| | |
|---|---|
| **GROUP NAME:** Apples 2 Apples | **Student Names (First and Last)** |
| **Logo:** | **Speaker/Presenter:** THOMAS Y |
| **Date:** 11-11-12 | **Writer/Prep:** ANNA S |
| **Topics:** | **QC/Leader:** THOMAS Y |

**Instructions:** evalute integral at endpoints

38.142857

Area under y1 and y2 per day step

eq is 12.5 [illegible]

47.833 − 9.6905 = 38.142857

| | |
|---|---|
| **GROUP NAME:** CSC<br>**Logo:** | **Student Names (First and Last)**<br>**Speaker/Presenter:** |
| **Date:** 11/11/13<br>**Topics:** | **Writer/Prep:** Courtney<br>**QC/Leader:** Stephen Smith |

**Instructions:**

$

apple stock price

| | |
|---|---|
| GROUP NAME: WOLFPACK | Student Names (First and Last) |
| Logo: | Speaker/Presenter: Jared |
| Date: NOV 11 2013 | Writer/Prep: DC |
| Topics: | QC/Leader: Quay |

Instructions:

$Y_1 = 157.0432276657x^3 - 30706.682997117x + 1500520.2824207$

$Y_2 = 157.0432276657x^3/3 - 30706.682997117x^2/2 + 1500520.2824207x$

2ND CALC

#7

LOWER LIMIT = 96

UPPER LIMIT = 103

$Y_2(103) - Y_2(96)$

$= 4993.091253$ kb/s·year

$\int f(x)dx = 4993.0913$ kb/s·year

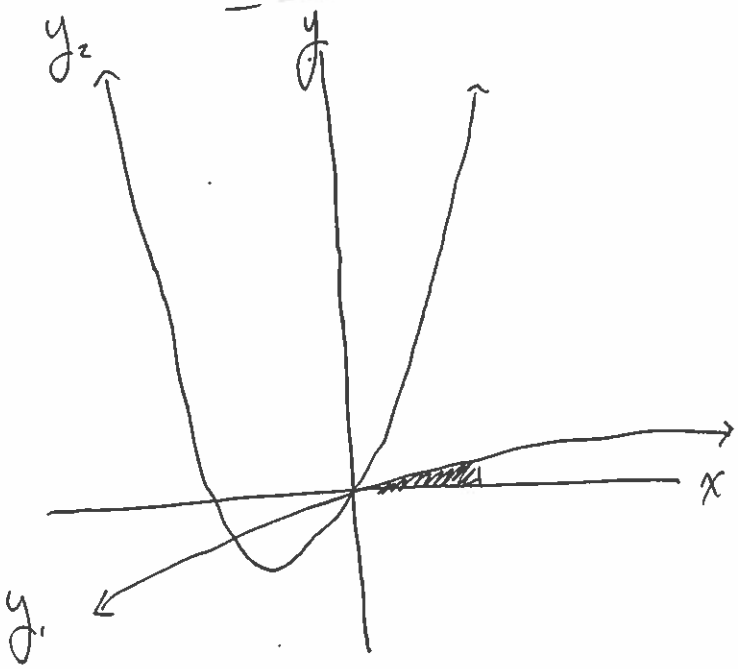
AREA UNDER f(x) BETWEEN 96 AND 103

EQUALS THE DIFF BETWEEN $Y_2(103)$ AND $Y_2(96)$

| | |
|---|---|
| **GROUP NAME:** IRISH MATH BOMBS | **Student Names (First and Last)** |
| **Logo:** | **Speaker/Presenter:** CONNOR KRUGMAN |
| **Date:** | **Writer/Prep:** I'm "Just a Bill yes I'm only a bill |
| **Topics:** | **QC/Leader:** and I'm Sittin' here on Capitol Hill. |

**Instructions:**

GRAPH : (Quadratic)




$\cancel{y = .0[illegible]x^2 + 1.18}$

$y_1 = Ax^2 + Bx + C$

$y_2 = Ax^3/3 + Bx^2/2 + Cx$

ANTIDERRIVATIVE

| $x$ | $y_1$ | $y_2$ |
|---|---|---|
| 3 | 12.893 | 33.745 |
| 5 | 14.907 | 61.574 |
| 7 | 16.743 | 93.254 |
| 9 | 18.4 | 128.43 |
| 11 | 19.879 | 166.74 |
| 13 | 21.179 | 207.82 |
| | | |
| | | |

Years

PRICE

FROM 2003 TO 2013

$\int F(x)\,dx = 174.077$ doll hairs

| | |
|---|---|
| **GROUP NAME:** The factors | **Student Names (First and Last)** |
| **Logo:** | **Speaker/Presenter:** [illegible] |
| **Date:** [illegible] | **Writer/Prep:** [illegible] |
| **Topics:** [illegible] | **QC/Leader:** [illegible] |

**Instructions:**

[illegible]

| X | [illegible] | [illegible] |
|---|---|---|
| [illegible] | [illegible] | 0 |
| [illegible] | [illegible] | 36.626 |
| [illegible] | [illegible] | 115. [illegible] |
| [illegible] | [illegible] | 66.443 |
| [illegible] | [illegible] | 113. [illegible] |
| [illegible] | [illegible] | 182.57 |

from 1950 - 2000 in a 50 year [illegible] government
[illegible] 180.5 [illegible] on infrastructure
in the US.