

Calculus

derivative integral function differential

mathematics

Leibniz Newton

integration

fundamental

infinite

limit

century

theory

change

interval

books

science

linear

functions

gives

second

physics

series

Related

find

antiderivative

also

infinitesimals

value

approximate

number

first

rigorous

ideas

Riemann

numbers

two

given

technology

example

changes

point

notation

input

results

distance

area

modern

method

method

infinite

resources

slope

mathematical

work

geometry

Retrieved theorem

one

definite

Foundations

volume

traveled

work

geometry

limit

finding

points

basic

Limits

many

called

History

zero

small

indefinite

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May

infinite

definition

Isaac

approximation

mathematicians

Development

equations

introduction

curve

differentiation

developed

sum

Notes

Tangent

Main

Topics

inputs

use

statistics

university

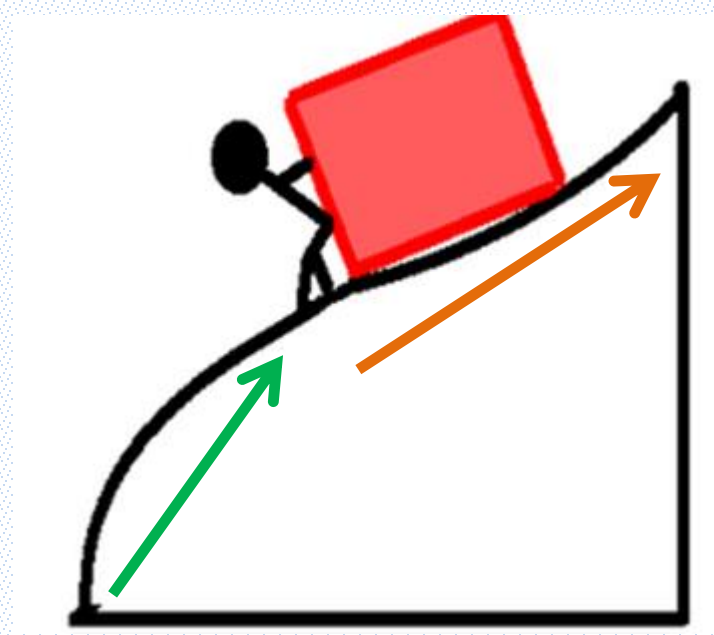
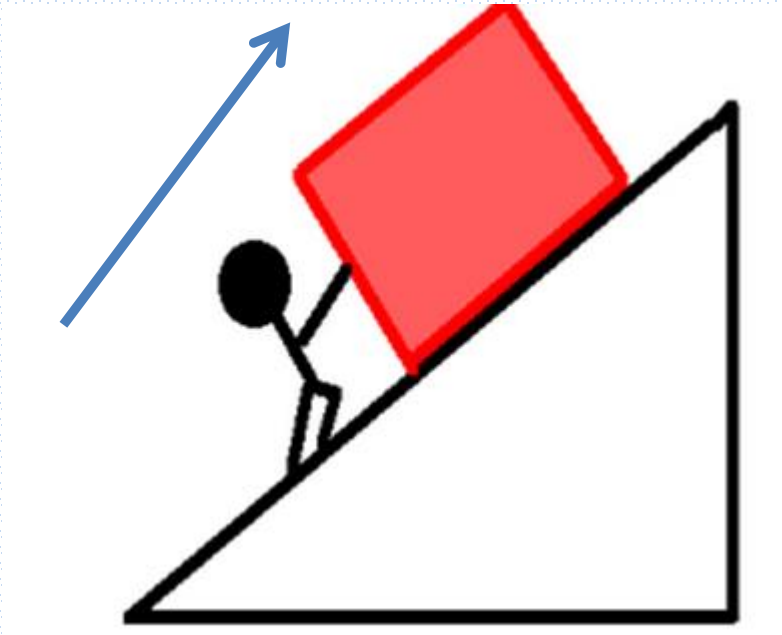
analysis

exact

article

2

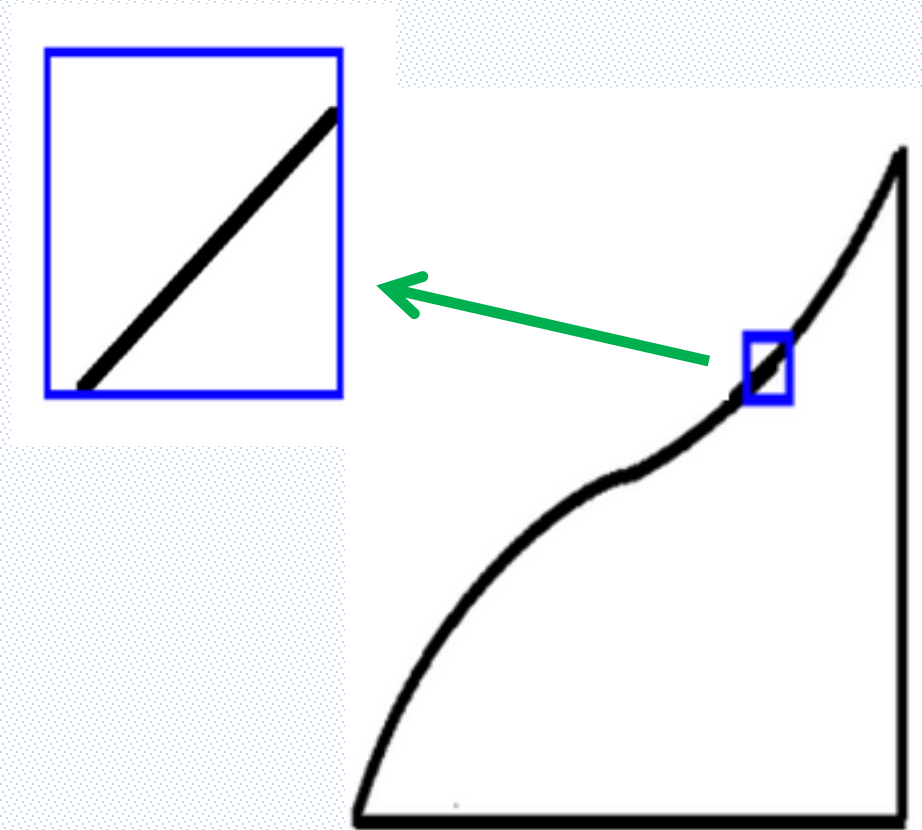
How Calculus is different from Other Math Subjects:



The Amount of Energy required to push the Box to the top

For the problem on the **left**, you can use **algebra** to solve the problem. For the problem on the **right**, you need **calculus**

With the curving incline problem, the algebra that you use is the same, the difference is that you have to **break up** the curving incline problem into **smaller chunks** and do each chunk **separately**. When zooming in on a small portion of the curving incline, it looks as if it is a straight line:



The Syllabus of Calculus 2

Course Contents: **(Weekly Lecture Plan)**

1. Indefinite Integrals
2. Methods of Integrations
3. Definite Integrals
4. Midterm Exam
5. Applications of Integrations
6. Applications of Integrations
7. Matrices, definitions ,types and operations
8. Inverses and determinants of matrices
9. Linear system of equations
10. Final Exam
11. Final Exam

HOW WILL I BE ASSESSED?

Attendance = 5



Assignments = 10



Quizzes=2*5=10



Participation=5

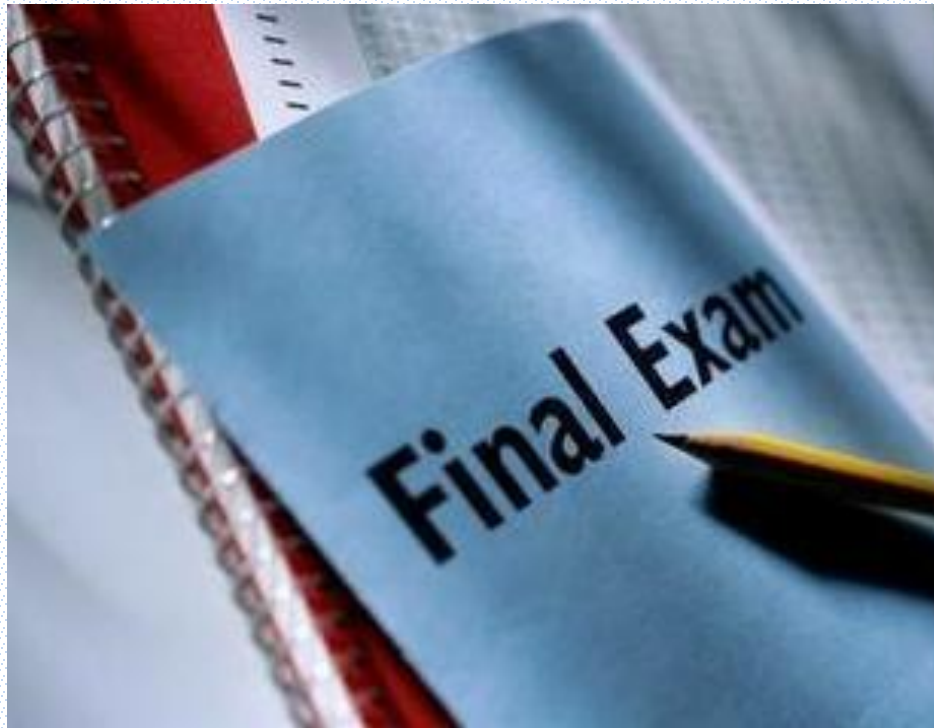


Midterm Exam = 30



Mid-Term
EXAM

Final Exam=40



CLASSROOM REGULATIONS

Plan to arrive to class on time and to stay for the entire class period (or until dismissed) because random arrivals and exits are disrespectful and distracting.



All cell phones, smartphones, and other electronic devices (e.g., pagers, iPods) must be turned off (or on vibrate) and hidden from view during class time.



Food and beverages are NOT permitted in classrooms.



Talking and other disruptive behaviors are not permitted while classes are in session.

Sshh!



No Talking!

Students are expected to be professional and respectful of other students,



Students are responsible for what transpired if they miss a class. It is the student's responsibility to contact a classmate to determine what was missed.



JUST

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IT