## Please write an outline of the main contents of the lecture.

Problem
- Denoting the area under curve on some continuous
function X.

- Uge Rieron intervol

F(x)= S fet) dt

Ex in (a,t)

Fundamental theorem of calculas

Le = d = f(x)D

Le = dx = a f(t)dt = f(x)D

Allows us to solve the Rieman likewal using desireting

Example D dx = (1-57) dt = (0524) dx = (1-57) dt = (1-52)

Search / Summary

Group J

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Actuarial Path

Fandon variable X

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Each value from a to to has prob. To

(Area of sectable

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Proving Compas with Eulus

Eles: eix = cox x + i sin X

- 5.n2x+ cos2x=1

eix c cosx tismx e'x = e i(x) = (05 (-x) + i < (x x) = (05 x - i siny e". e ix D(cosx + i sin x) (cos x -isinx) D 1 = (052x -1008 x silvx +1 sinx cosx + sin }

Angle sum formula. elas cosa tisma e's corbtishb e "e's (cos a tisina) ( 6(184P) = (02000) +- e, w eque

= cos(add) + is in (add) (cose

p set a, b to x god Sove