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

- Fundamental Theorem of Calculus O

- Connection between derivative and & integral

- function between 2 points [a, b]

- Notation :

-f between [a, b]

- f = demotrie

- F = antidemotive

1:00 PM

luke

Summary Search

Group 3

B, C, A

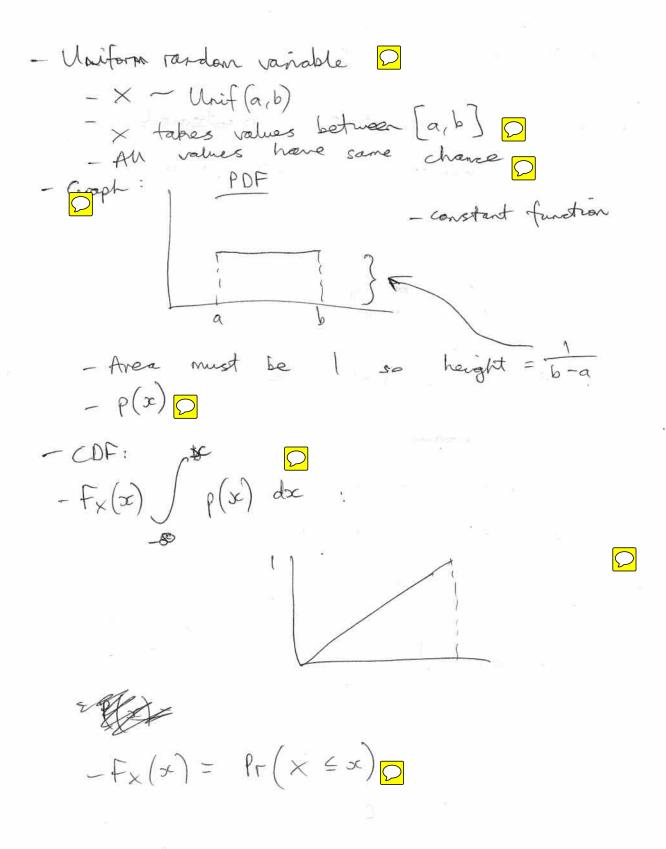
K 5 1.

- Fundamental Theorem of Calculus

 $-\frac{1}{2} = \frac{d}{dx} \int_{a}^{x} f(t) dt = f(x)$ 

- From Total antidemative to derivative

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- Euler's formula: 
$$e^{ix} = cos(x) + i \cdot sin(x)$$

- can be used to prove trigo rametric formulas

E.g. 
$$\sin^2(x)$$
 \$ +  $\cos^2(x) = 1$ 

$$-\cos(2x) = \cos^2(x) - \sin^2(x)$$

$$-\sin(2x) = 2\sin(x)\cos(x)$$

$$-\sin(2x) = 2\sin(x)\cos(x)$$