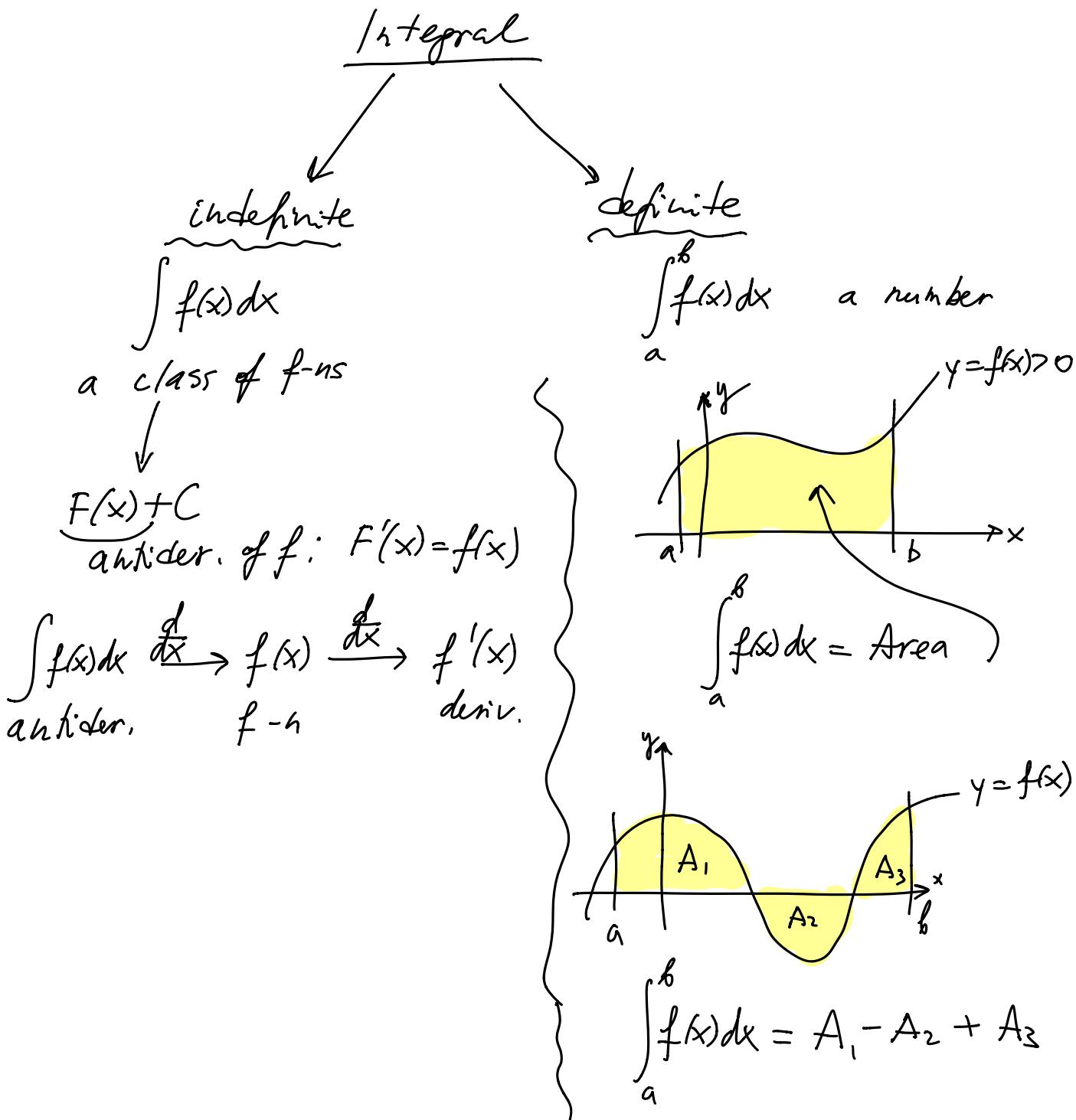


Episode 1: What an integral is



Indef. & Def. integrals are related by FTC:

$$\int_a^b f(x) dx = \underbrace{\left. F(x) \right|_a^b}_{\text{def. } \int} = F(b) - F(a)$$

indef.

How to integrate (= find an antideriv.)

Integr. techniques

by substitution

by parts

+ integration of special fns (rational, trig.)