Let Dig 1 Theolanded Theorem of Calubs Ted II
FTC Ted II
If is a continuous function as accurated on Early I
and F is any anti-densitive of I on Early I
then:

$$\int_{a}^{b} \frac{1}{100} dx = \frac{1}{100} - \frac{1}{100} dx$$

$$= \frac{1}{100} + \frac{1}{100} dx = \frac{1}{100} - \frac{1}{100} dx$$

$$= \frac{1}{100} + \frac{1}{100} dx = \frac{1}{100} + \frac{1$$

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Finding Area using Anti- derivatives
ex. Find the area of the region
between the curve
$$f(x) = x^2 - 1$$
 and the x-axis
on $[-2, 3]$.
who calculator
 $\int_{-2}^{1} (x-1) dx + \int_{1}^{1} (x-1) dx$
This positive
 $\frac{x^2}{3} - x \Big|_{-2}^{-1} - (\frac{x^3}{3} - x)\Big|_{+1}^{1} + (\frac{x^3}{3} - x)\Big|_{1}^{3} = 9.3$

J

