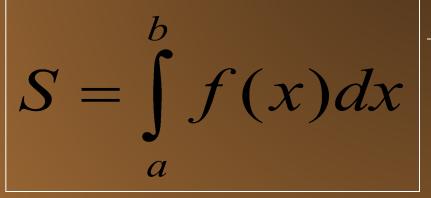
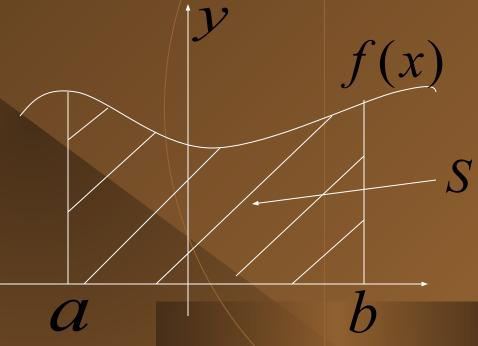
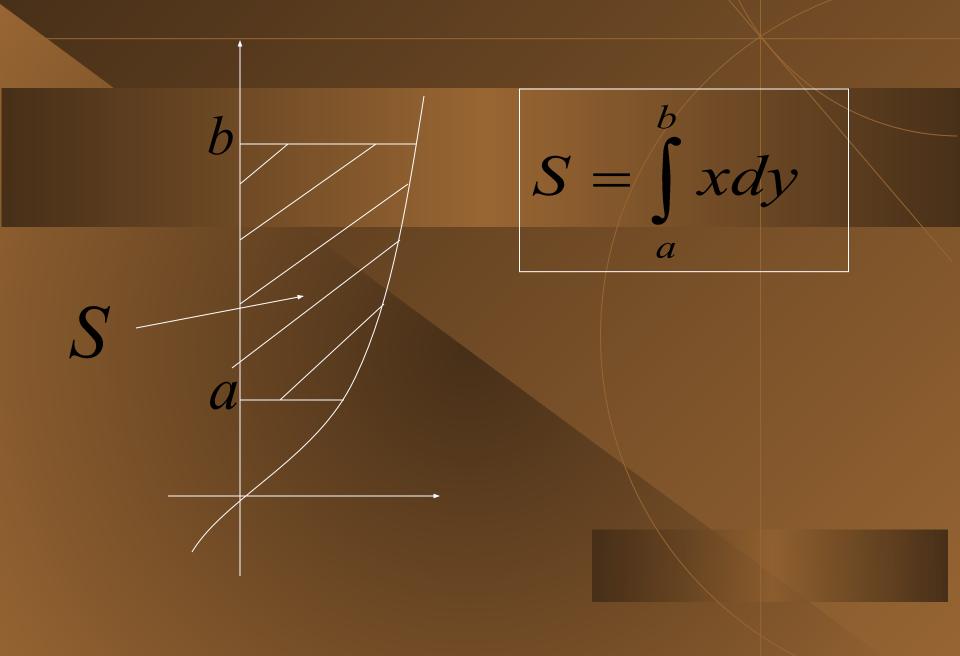
AREA AND VOLUME BY DEFINITE INTEGRAL

AREA

We have a
 function y =f(x),
 and two points
 on the X axis a
 and b. Then the
 area formula is







$$S = \int_{a}^{b} [f(x) - d(x)] dx$$

$$a$$

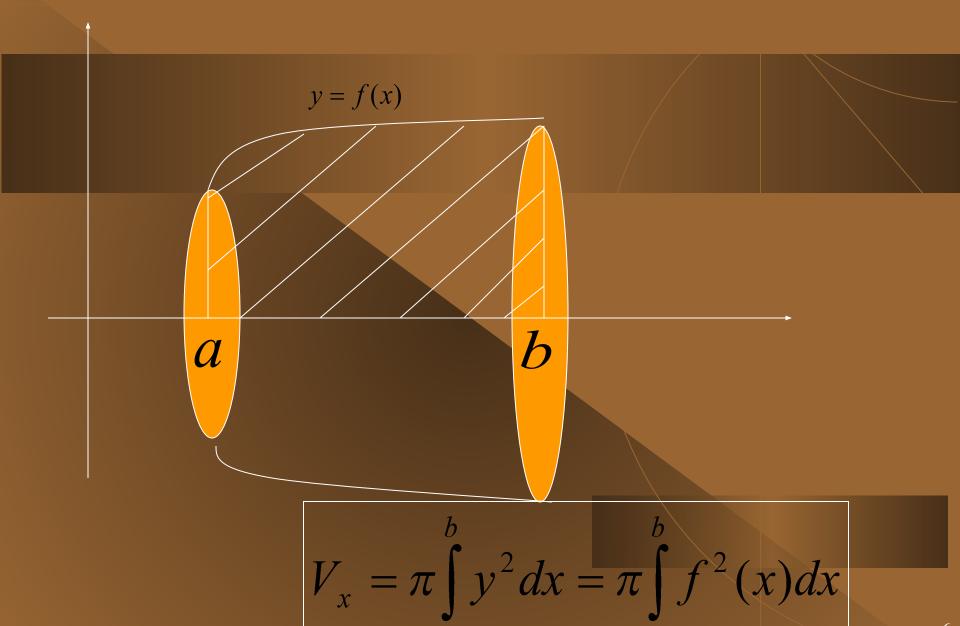
$$a$$

$$g(x)$$

$$S = \int_{a}^{c} f(x)dx - \int_{c}^{d} f(x)dx + \int_{d}^{b} f(x)dx$$

$$A \qquad C \qquad P \qquad Q$$

VOLUME



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