November 5, 2025 National Eating Healthy Day

Today in History:

FDR re-elected president (1940)

Susan B. Anthony voted and was arrested (1872)

Number of the Day: 693

693 = 3 x 3 x 7 x 11

693 is 1010110101 in base 2.

Fun Fact:

To lift a 110 pound person, you'll need 4,000 helium balloons.

Quote of the Day:

"Glory is fleeting, but obscurity is forever."

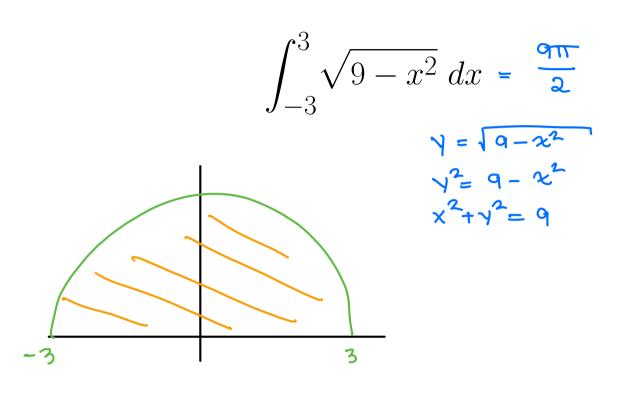
- Napoleon Bonaparte

Today's Weather:

Cloudy and windy, high of 61°

Math 121 - Quiz #35

Draw a picture of the region and find



$$= \int_{0}^{1} x \, dx + 2 \int_{0}^{1} (1-x^{2}) dx$$

$$= \int_{0}^{1} x \, dx + 2 \int_{0}^{1} (1-x^{2}) \, dx$$

$$= \frac{1}{2} + 2 \frac{\pi}{4} = \frac{1}{2} + \frac{\pi}{2}$$

$$y = \sqrt{6x - x^2}$$

$$\chi^2 - 6\chi + 9 + \gamma^2 = 0 + 9$$

$$(x-3)^2+y^2=9$$
 CIRCLE CENTER

$$f(x) = x^3$$

$$f'(x) = 3x^2$$

SOME FUNCTION HAS DERIVATIVE

WHAT IS THE FUNCTION?

$$f(x) = x^3 + 7$$

ANTI - DERIVATIVE.

$$\int f(x) dx = F(x) + C$$
Where $F'(x) = f(x)$

$$\int 3x^2 dx = x^3 + C$$

$$\int x^{N} dx = \frac{x^{N+1}}{N+1} + C \qquad N \neq -1$$

2
$$\int \sqrt{x} \, dx = \int x^{\frac{1}{2}} \, dx = \frac{\frac{3}{2}}{\frac{3}{2}} = \frac{2x}{3} + C$$

(3)
$$\int \frac{1}{\chi^3} dx = \int \chi^{-3} dx = \frac{\chi^{-2}}{2} = -\frac{1}{2\chi^2} + C$$

$$\frac{1}{\sqrt[4]{x^2}} dx = \int x^{-\frac{2}{3}} dx = \frac{x^{\frac{1}{3}}}{\frac{1}{3}} = 3x^{\frac{1}{3}} + C$$

$$\int \frac{1}{x} dx = 2m|x| + C$$

SUM RULE

FIRE ALARM

FRIDAY