Review of 4.1-4.2

$$\int dx =$$

$$\int x\,dx =$$

$$\int 4x\,dx =$$

$$\int x^3\,dx =$$

$\int 5x^3 dx =$

$\int (x^4 - 3x^2 + 2x - 5) dx$

$\int \sqrt{x} dx$

$$\int \frac{3}{x^2}\,dx$$

$$\int \frac{5x^4 - 2}{\sqrt{x}}\,dx$$

Your favorite!!!!

$\int sinxdx$ $\int cosxdx$

$\int secxtanxdx$ $\int cscxcotxdx$

$\int sec^2xdx$ $\int csc^2xdx$

$$\int 7\cos x\,dx$$

$$\int \frac{\cos x}{1-\cos^2 x}\,dx$$

Solve the differential equation

$y = \int (x^2 - 1)\, dx$ **if** $f(-1) = 3$

Given $y = \sqrt{x} + 1$ ***on [2,3] with n= 4***

Find area under the curve using:

Upper sum

Lower Sum

Midpoint Sum

Trapezoidal Sum

Actual Area