$39a) \int_0^1 (1+x)^3 dx =$	$39a) \int_0^1 (1+x)^3 dx =$
$396) \int_{0}^{1} (1+2x)^{3} dx = 1$ $\int_{2}^{5} e^{x} dx = e^{x} \int_{2}^{5} e^{x} dx = 1$ $e^{x} \cdot \ln e$	$A) \int_{2}^{5} 5^{x} dx =$ $\frac{d}{dx} = 5^{x} \left(\ln 5 \right)$

$$\sqrt{9-4x^2} = 0$$
 $9-4x^2 = 0$
 $9=4x^2$
 $\sqrt{9}=4x^2$
 $\sqrt{9}=4x^2$
 $\sqrt{9}=4x^2$
 $\sqrt{9}=4x^2$

Using the calculator to compute area

A)
$$\int_0^8 \frac{1}{5+3\cos(x)} = \int_0^8 \frac{1}{5+3\cos x} = \int_0^8 (5+3\cos x) dx$$

$$= 1.833$$

B) Find the Area of the region between the x-axis and the graph of
$$y = \sqrt{9-4x^2}$$

$$(q-4x^2)$$

$$(q-4x^2)$$

$$(q-4x^2)$$

For what value of x does $\int_0^x t^2 dt = 2$

For what value of x does
$$\int_{0}^{x} t^{2} dt = 2$$

$$\int_{0}^{x} \frac{1}{3} t^{3} = 2$$

$$\int_{0}^{x} \frac{1}{3} t^{3} = 2$$

$$\int_{0}^{x} \frac{1}{3} x^{3} - \frac{1}{3} (0)^{3} = 2$$

$$\int_{0}^{1} \frac{1}{3} x^{3} - \frac{1}{3} (0)^{3} = 2$$

For what value of x does $\int_0^x e^{-t^2} dt = .5695$ (xe-t3 dt = .5615

E) Find the area of the region in the first quadrant enclosed by the coordinate axes and the graph of
$$x^5 + y^5 = 1$$
.

coordinate axes and the graph of
$$x^3 + y^3 = 1$$
.

$$y^5 = 1 - x^5$$

$$y = \sqrt{5 - x^5}$$

F) Find the average value of
$$\sqrt{\sin x}$$
 on the interval [1, 2].