

$$\int_1^{\sqrt{2}} \frac{dx}{x^2 \sqrt{4-x^2}}$$



Limit Switching

Using Triangle



$$\int_0^1 \frac{dx}{(x^2 + 4)^{3/2}}$$



$$\int \frac{5dx}{\sqrt{25x^2 - 9}}$$

$$\int_1^2 \frac{dx}{\sqrt{4x - x^2}}$$





Math 104 – Rimmer
8.3 Trig. Substitution

Find the volume of the solid generated by revolving the region bounded by

the curves $y = \frac{4}{x^2 + 4}$, $y = 0$, $x = 0$, and $x = 2$ about the x -axis.

