NOTE CHECK - 5.3

CYLINDRICAL SHELLS METHOD:

$$V = \int_a^b 2\pi x\, f(x)\, dx \quad \text{-- ABOUT Y-AXIS}$$

$$V = \int_c^d 2\pi y\, g(y)\, dy \quad \text{-- ABOUT X-AXIS}$$

EX 1: VOLUME - BY $Y=\sqrt{X}$, $X=1$, $X=4$, ABOUT Y-AXIS

$V = \int$

EX 2: REVOLVE ... $Y=X$ & $Y=X^2$ ABOUT Y-AXIS

$V = \int$

Ex 3: Bound By $x = -y^2 + 6y$ & $x = 0$ About x-axis

$$V = \int_c^d 2\pi y f(x)\,dy$$

$$V = \int$$

Ex 4: ... $y = x^2 + 1$, $y = -x + 1$, & $x = 1$ About y-axis

$$V = \int$$