

NOTE CHECK \rightarrow 5.2

$$V = \int_a^b A(x) dx, \quad A(x) =$$

METHOD OF DISKS : $V =$
ABOUT THE X-AXIS

EX 1: FIND THE VOLUME OF THE SOLID OF REV... $y = 3\sqrt{x}$
ON $[1, 4]$, REV. ABOUT X-AXIS

$$V =$$

METHOD OF WASHERS : $V =$
ABOUT X-AXIS

EX 3: FIND VOLUME CREATED... $f(x) = \frac{1}{2} + x^2$ & $g(x) = x$,
 $[0, 2]$, REV. ABOUT X-AXIS

$$V = \int$$

VOLUMES ABOUT Y-AXIS:

DISCS: $V =$

WASHERS: $V =$

EX 4: $y = \sqrt{x}$... AROUND Y-AXIS & BOUND BY $y=1$ & $y=0$

$x = y^2$ $V = \int$

... ABOUT X-AXIS ... $y = \sqrt{x}$

$V = \int$

EX 5: ... VOLUME OF SOLIDS ... $y = x^2$ & $y = x^3$... ABOUT X-AXIS



$V = \int$

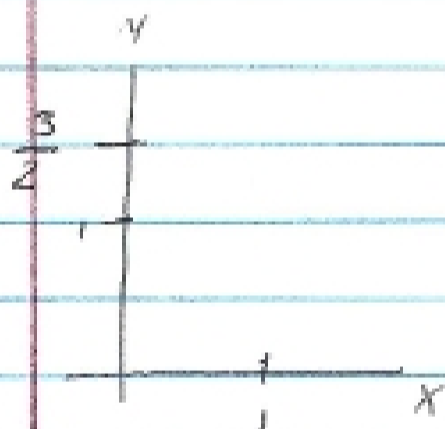
EX 6: ... $y = x^2$ & $x = y^2$ Around Y-AXIS

$$x =$$


$$V = \int$$

EX 7: ... VOLUME OF SOLIDS ... $y = x$ & $y = x^3$

REVOLVED ABOUT $y = \frac{3}{2}$



$$V = \int$$