C3. Q103 (CH 15A) ASSIGNMENTS LIST

LESSON 1 (15.1, 15.2, 15.3) HOMEWORK/PRACTICE
Sketch the region bounded by the graphs of the given equations.

Express $\iint_R f(x,y)dA$ as $\iint_R f(x,y)dydx$ and $\iint_R f(x,y)dxdy$

1. $y=\sqrt{x}\quad x=4\quad y=0$

2. $y=\sqrt{x}\quad x=0\quad y=2$

3. $y=\sqrt{x}\qquad y=x^3$

4. $8y=x^3\quad y-x=4\quad 4x+y=9$

5. Use a Double Integral to find the area bounded by $y=x\quad y=3x\quad x+y=4$

6. Find the volume of a lake whose surface is define by the region R in #5 and whose depth is defined by $f(x,y)=x+y$

7. Find the volume of the solid whose base is the region R bounded by $y^2=-x$, $x-y=4$, $y=-1$ and $y=2$ and whose height is $f(x,y)=xy$.

LESSON 2 (15.1, 15.2, 15.3) CLASS WORKSHOP/HW/PRACTICE

CLASS WORKSHOP (FINISH FOR HW):

Section 15.3: #5, 7, 17, 21, 43, 45, 51, 55;

Section 15.1 #1, 9;

Section 15.2, #9,17

LESSON 3 (15.9, 15.4) HOMEWORK/PRACTICE

Section 15.9 #21, 19, 13

Section 15.4: #1-6, 11, 13, 29

LESSON 4 ADDITIONAL REVIEW PRACTICE

Section 15.3 #58

Section 15.4 #35