

## Answers to Yesterday's Worksheet

b)  $\frac{75}{2}$

f)  $1000\pi$

c)  $875\pi$

g)  $800\pi$

d)  $125\pi$

h)  $1075\pi$

e)  $1250\pi$

Today's Work: Show integrals and calculate:

1) Sketch the region in the first quadrant

bounded  $y = 13 - x^2$ ,  $y = x^3 + 1$ , and the y-axis

2) Find its area

3) Find the volume when the region is rotated about:

A) x-axis

B) y-axis

C)  $y = -2$

D)  $y = 15$

E)  $x = -5$

F)  $x = 5$