

TUES. 5-16-06

1. Find the volume of the solid generated by revolving the region bounded by  $y = \sqrt{x}$  and the lines  $y = 2$  and  $x = 0$  about:

a) the line  $y = 2$

$$\frac{8\pi}{3}$$

b) the line  $x = 4$

$$\frac{224\pi}{15}$$

2. Find the volume of the solid generated by revolving the region bounded by  $y = x^2$  and the line  $y = 1$  about:

a) the line  $y = 1$

$$\frac{8\pi}{15}$$

b) the line  $y = 2$

$$\frac{28\pi}{15}$$

c) the line  $y = -1$

$$\frac{32\pi}{15}$$

O.T.L.

CORRECT 1, 2

Do 3, 4, 5, 6