

425 # 1-4, 7-10, 23-25, 27

$$1) \pi \int_0^1 (-x+1)^2 dx$$

$$2) \pi \int_0^2 (4-x^2)^2 dx$$

$$3) \pi \int_1^4 (\sqrt{x})^2 dx$$

$$4) \pi \int_0^3 (\sqrt{9-x^2})^2 dx$$

$$7) y=x^2 \quad x=\sqrt{y} \quad \pi \int_0^4 (\sqrt{y})^2 dy$$

$$8) x=\sqrt{16-y^2} \quad \pi \int_0^4 (\sqrt{16-y^2})^2 dy$$

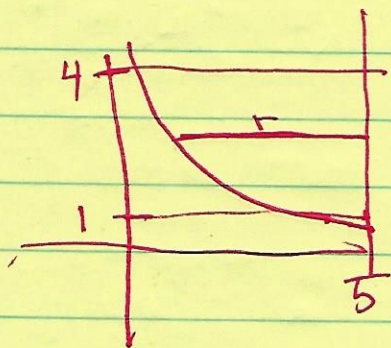
$$9) y=x^{2/3} \quad x=y^{3/2} \quad \pi \int_0^1 (y^{3/2})^2 dy$$

$$10) \pi \int_1^4 (-y^2+4y)^2 dy$$



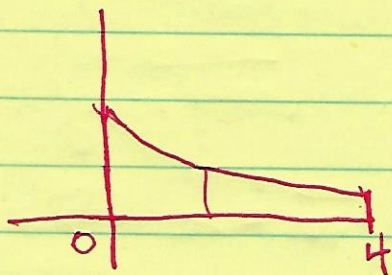
23) Is next section  $\rightarrow$  skip

24)



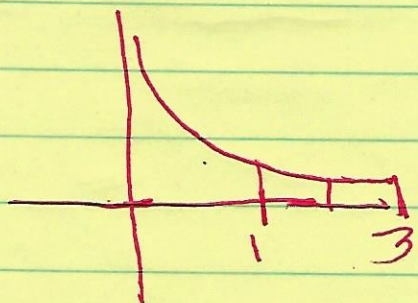
$$\pi \int_1^4 \left(5 - \frac{3}{y}\right)^2 dy$$

25)



$$\pi \int_0^4 \left(\frac{1}{\sqrt{x+1}}\right)^2 dx$$

27)



$$\pi \int_1^3 \left(\frac{1}{x}\right)^2 dx$$