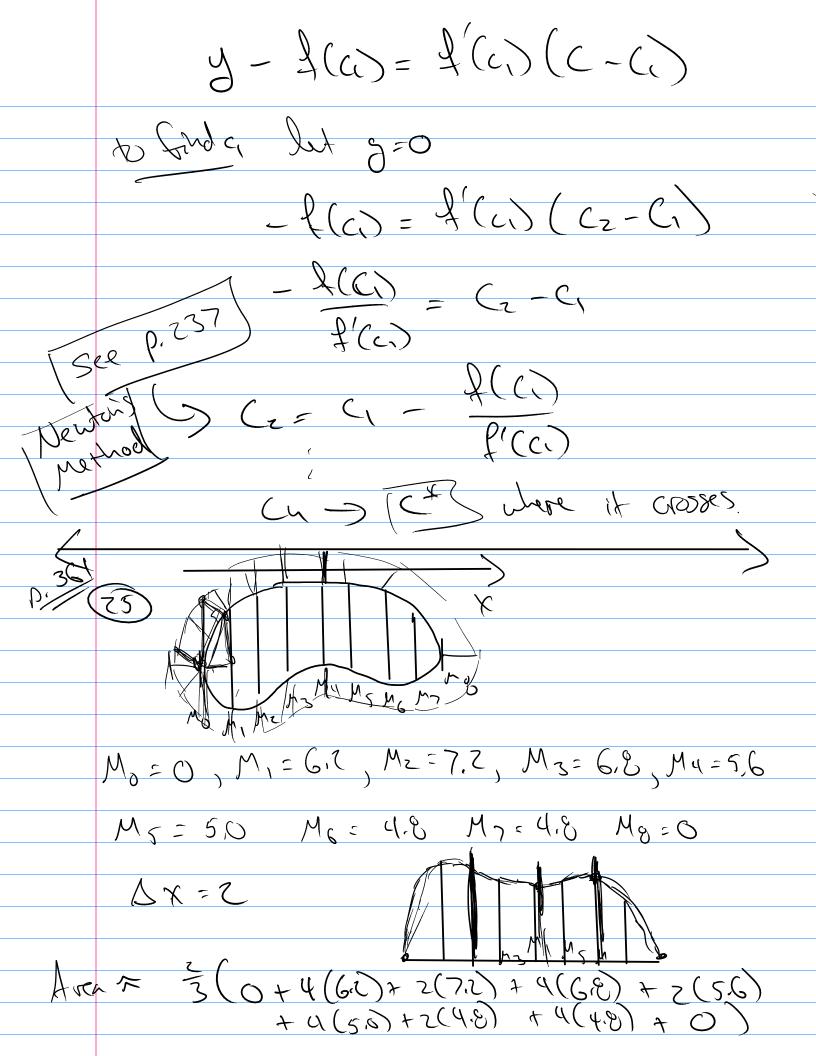
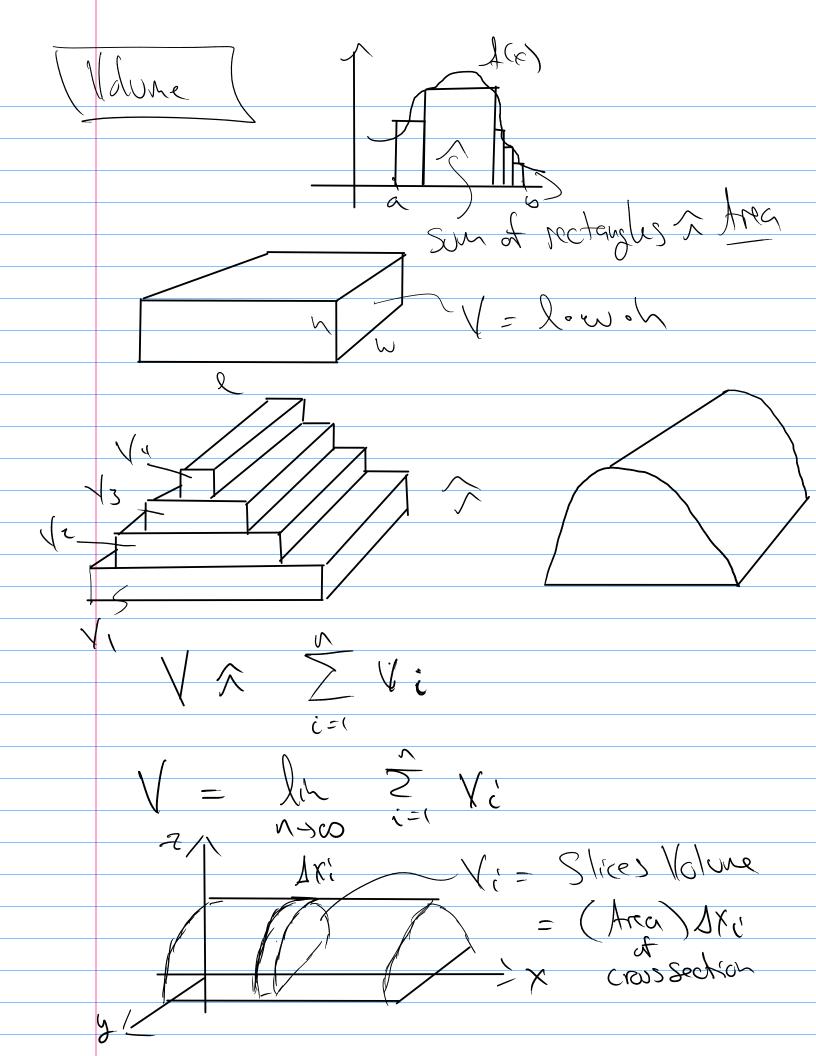
ath 293 Applications = / = / (/x, x)

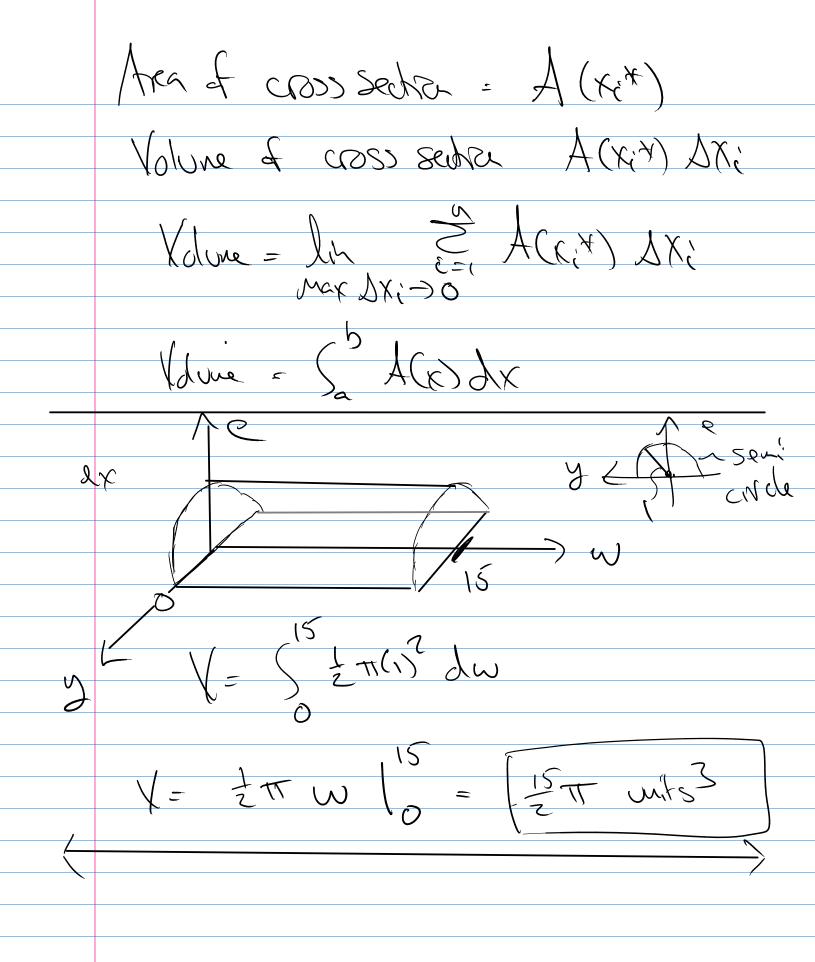
Mar 1 area = [((x;*)-s(x;*) JXK; كا

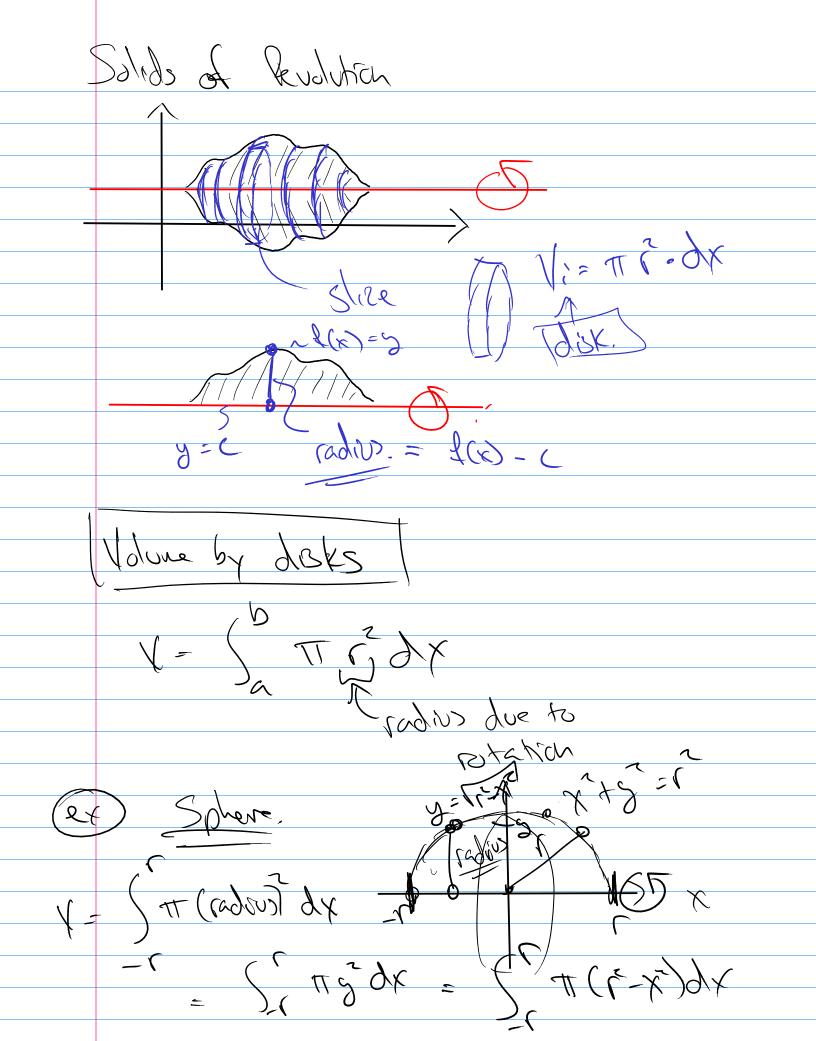
 $A = \lim_{i \to \infty} \left(\frac{1}{2} \left(\frac{1$ Area = $\int_{\alpha}^{b} (f(x) - g(x)) dx$ studen = $\int_{\alpha}^{b} (f(x) - g(x)) dx$ = $\int_{\alpha}^{b} (f(x) - g(x)) dx$) are between X=y2-4y; c1 (0,0) y =0 y = 3 X = 0 x 5 - 3 ((23-32) - (3-42))dy $= \left(\frac{3}{-2y} + 6y \right) dy = -\frac{3}{3}y + 3y^{2} \Big|_{0}^{3}$

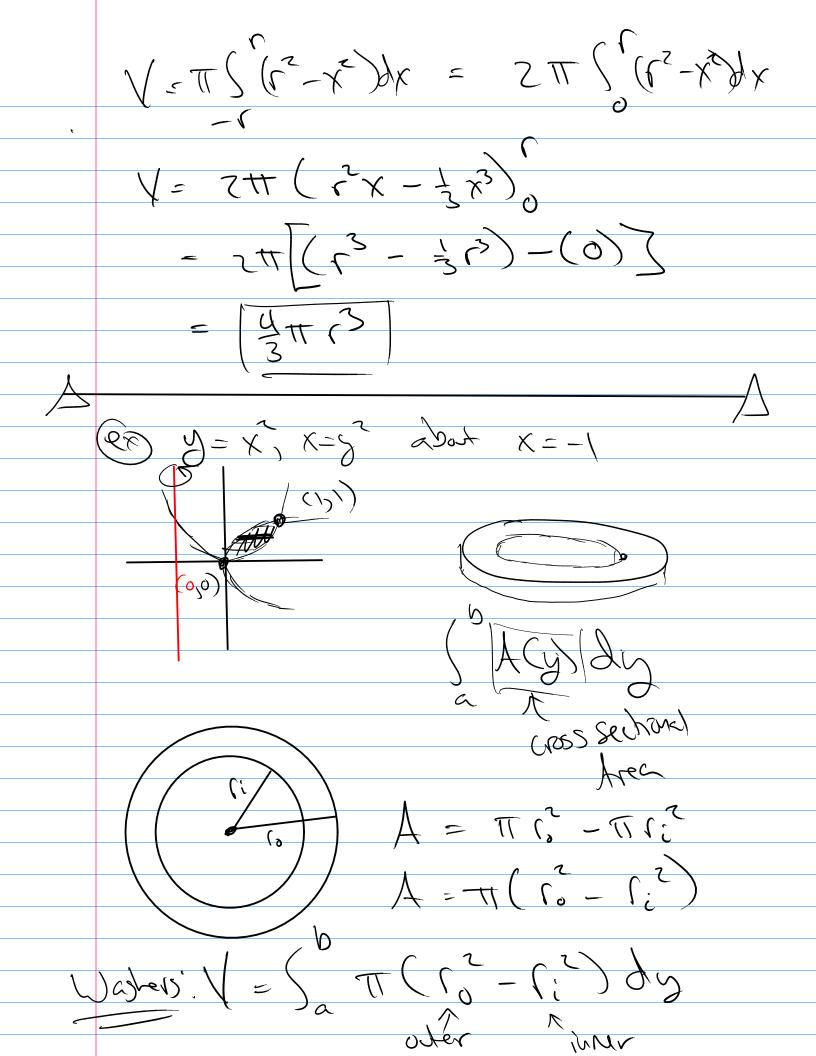
$$= -18 + 77 = 99$$

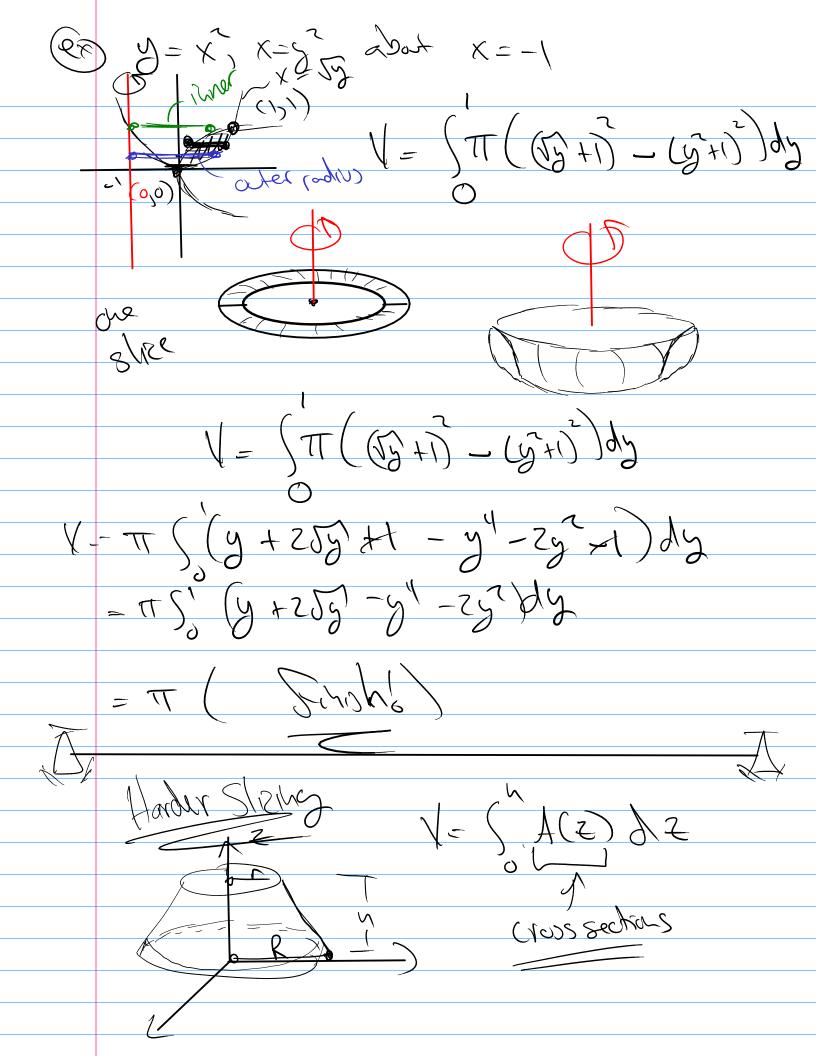


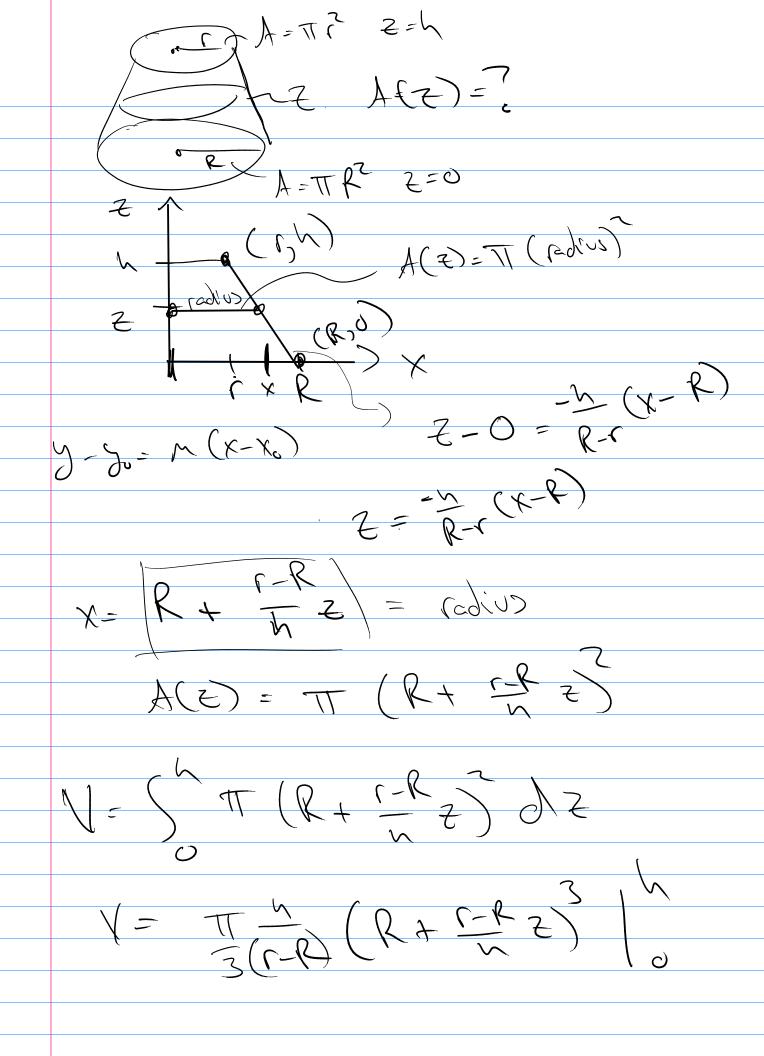












$$V = \frac{1}{3} \left[\left(R + r + R \right)^{3} - R^{3} \right]$$

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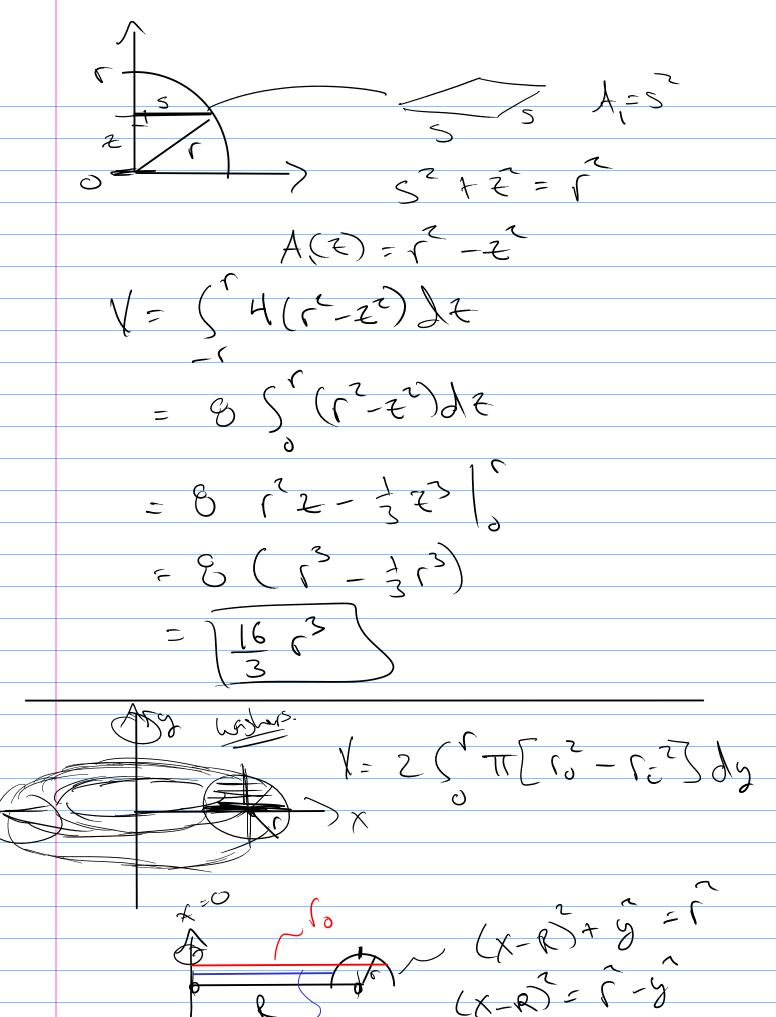
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$$V = \frac{1}{3} \left[\left(R + r + R \right)^{3} - R^{3} \right]$$

$$V = \frac{1}{3} \left[\left(R + r + R$$



X-R= も) (1-5) 10° X = R + Jr2-y2 13 1: x=R- 57-57 is (V= 2 (TT (R+1232) - (R-1232) dy V = 2tt ((R+2R)(3) + (2-3)) dy V=3TR STRS, dy I circle from y from 0 to r V=8TR JTT = [277 R]