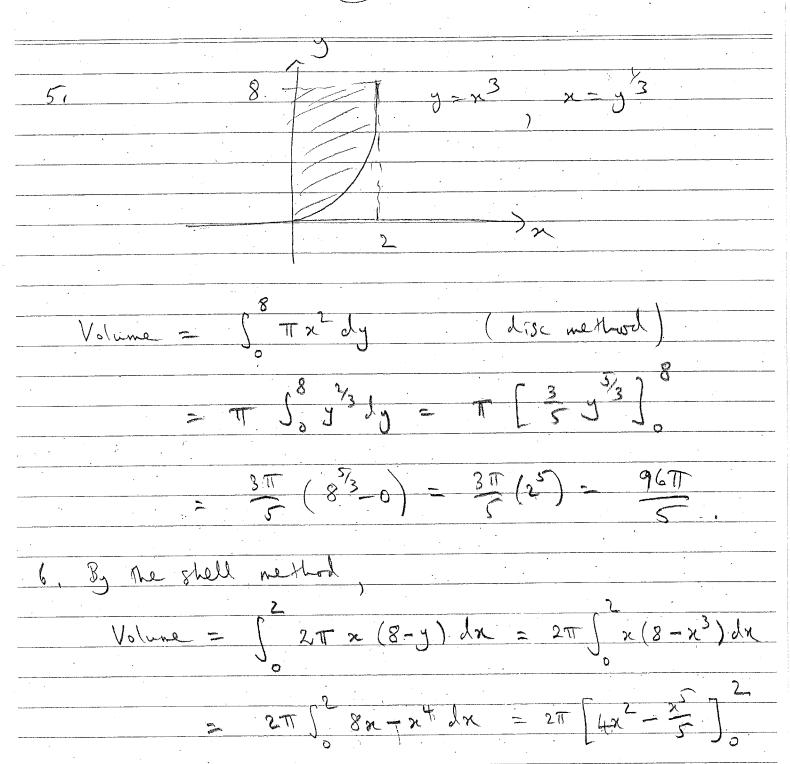
Put u = c-kn2 to du = $x dx = \frac{dx}{2k}, giving$ $\int_{\alpha}^{\infty} x f(c-kn^2) dx = \int_{\alpha}^{\beta} f(c-kn^2)$ du c-kb2 f(n) dx 2.

area of times rectargle = $(\sqrt{3} - \sqrt{6}) \cdot \sqrt{3} = \sqrt{53}$,

area of times rectargle = $(\sqrt{3} - \sqrt{6}) \cdot \sqrt{3} = \sqrt{53}$,

Flame $\sqrt{3} \leq \sqrt{3}$ formula $\leq \sqrt{2} \cdot \sqrt{3}$.

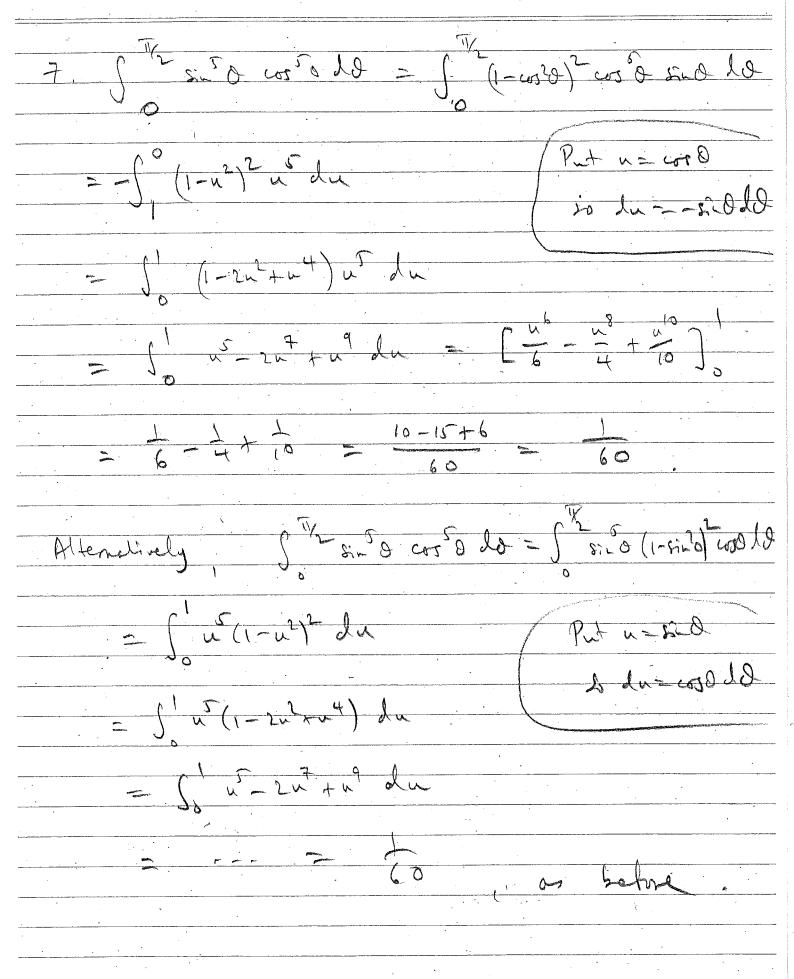
5 (2-)(n) (f(n)+ fin++) dx = (2-g(x)) (f(x)+sinx) + 2-g(x) dx J= (2-9(2)) (f(2)+542) dx + 5=2 dn= $+2(2-(-2))-2\int_{0}^{2}g(x)dx$ = 8 + 6 = x = x = x = x = (4) = x + length of cure for 100 Ex 6 100 Jatt 1/2 floo III x - dx =



$$=2\pi \left(16-\frac{32}{5}-0\right)$$

$$= 2\pi \left(\frac{80-32}{5}\right) = 2\pi \left(\frac{48}{5}\right)$$







 $F(n) = \int_{-\infty}^{\infty} \cos(t^3) dt$ Str woo (+3) dt - Sinn coo (+3) dt $f'(n) = \frac{1}{2}x^{-1/2}\cos\left((\pi x)^3\right) = \cos x \cos\left((\pi x)^3\right)$ cos (x3/2) _ ws x ws (sin3x Siz (17 x) 5 f (+) d+ so differentialing both sides gives $\frac{-\sin(\pi x)}{2} + \frac{\pi\cos(\pi x)}{2} = 2x + (x^2)$ Putting x = 5 yives = Sin (5#) + T cos (5T) = 10 f (25 0 - = 10 + (21) f(25) = - T

