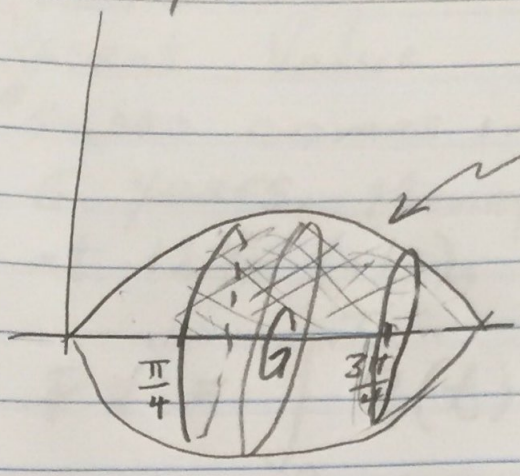
HW 4/13



$y = \sin x$

$\frac{\pi}{4} \leq x \leq \frac{3\pi}{4}$

Shaded area rotated about x-axis

[Hint: $\sin^2 u = \frac{1}{2} - \frac{\cos 2u}{2}$]

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Present Value

#40,000 comes in each yr. for 5 years. Money can be invested at 12% (.12).

$$P.V. = \int_0^T R(t)\, e^{-rt}\, dt$$

T = Term of cash flow (= 5)

r = interst rate as decimal

R(t) = function describing cash flow

#40,000/yr

Calculate the Present Value (PV) using the formula above.