Present neatly	on separate paper.	Justify for full cred	dit. No Calculators.
Name	Score	12 minutes	Weight: 1

- 1) The base of a solid is the region enclosed by $y = \cos x$, $y = \sin x$ and y = 0 in the first quadrant. Known cross sections are rectangles perpendicular to the horizontal axis, with length equal to twice the width. The width side sits on the base. Find the volume.
- 2) Use the limit definition to find the integral $\int_{-2}^{-1} (x+3)(x-1) dx$. Show work leading to your answer.