

Family name: _____

Sr. # _____

Q1) $\int_0^{\pi/3} \sec^2 x \tan^2 x \, dx$

Final Ans. _____

Q2) $\int_{-2}^2 x^3 \cos\left(\frac{\pi x}{2}\right) dx$

Final Ans. _____

Q3) Set up **-Don't evaluate** - an integral for the volume of the solid obtained by rotating the region enclosed by $y = \sqrt{x}$, $y = x - 2$ and the x -axis about $x = -1$

Final Ans. _____