

Math 212

* Wednesday quiz: see our webpage

* Return HW + discuss

- 6.2.3 $f(x) = k \quad \forall x \in B \Rightarrow \int f = k \cdot \text{vol}(B)$

- $f(x) = \sqrt{x}$ is uniformly cts. on $(0, \infty)$.

- $\sup(X+Y) = \sup X + \sup Y$

Template for a proof: Prop. $s = \sup S$.

Pf/ Let $a \in S$. Then $\sim$ math occurs here $\sim$, So $s \geq a$. Therefore, s is an upper bound for S . Next, suppose $t \geq a$ for all $a \in S$. Then $\sim$ math again $\sim$. So $t \geq s$. Therefore, s is the least upper bound for S . $\square$