

►. Using math induction, prove that for each $n \in \mathbb{N}$

$$\sum_{i=1}^n i^3 = \left[\frac{n(n+1)}{2} \right]^2.$$

Be sure to follow the *Math Induction Writing Guidelines* listed at the bottom of the class handout: [Ch 4: Math Induction Summary](#). The previous problem provides LaTeX help.

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DELETE this whole sentence and THEN put your answer to ALL parts down here.