Quiz Problem 1 Due Aug. 27th, 11:59 pm EST

Problem. Let $\{A_i\}_{i=1}^\infty$ be a collection of sets. Prove DeMorgan's Law $\left(\bigcup_{i=1}^\infty A_i\right)^c=\bigcap_{i=1}^\infty A_i^c.$

$$\left(\bigcup_{i=1}^{\infty} A_i\right)^c = \bigcap_{i=1}^{\infty} A_i^c.$$