Weekly Homework X

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Logic, Proof, & Axiomatic Systems

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Theorem x.yz. Delete this text and write theorem statement here.

Proof. Blah, blah, blah. Here is an example of the `align` environment:

$$
\begin{aligned}
\sum_{i=1}^{k+1} i &= \left(\sum_{i=1}^{k} i \right) + (k+1) \\
&= \frac{k(k+1)}{2} + k + 1 \qquad\qquad \text{(by inductive hypothesis)} \\
&= \frac{k(k+1) + 2(k+1)}{2} \\
&= \frac{(k+1)(k+2)}{2} \\
&= \frac{(k+1)((k+1)+1)}{2}.
\end{aligned}
$$

□

Theorem x.yz. Let $n \in \mathbb{Z}$. Then yada yada.

Proof. Blah, blah, blah. I'm so smart. □