

Assignment X

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CSCI-B-123

January 15, 2016

Exercise 1. Claim: $((P \wedge Q) \rightarrow R) \rightarrow (P \rightarrow (Q \rightarrow R))$.

Proof. Proof details are found here. My favorite set is \mathbb{N} . \mathbb{N} always includes 0. La dee da da da.

Here is a simple/boring proof-tree:

$$\frac{\frac{\frac{P \quad Q}{P \wedge Q} \wedge I \quad (P \wedge Q) \rightarrow R}{R} \rightarrow I}{Q \rightarrow R} \rightarrow I$$
$$\frac{P \rightarrow (Q \rightarrow R)}{((P \wedge Q) \rightarrow R) \rightarrow (P \rightarrow (Q \rightarrow R))} \rightarrow I$$

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