In-Class Worksheet
Discrete Math & Functional Programming— CSCI 054— Spring 2025
Instructor: Osborn

binary	decimal	hexadecimal
11001		
	1782	
		0x3A

$\forall j, k \in \mathbb{Z}$, j and k are odd if and only if jk is odd.

Claim: $1 = 0$.

"Proof": Suppose that 1=0. Then

$$1 = 0 \qquad \qquad \text{(by assumption)}$$
$$0 \cdot 1 = 0 \cdot 0 \qquad \qquad \text{(multiplying both sides by 0)}$$
$$0 = 0$$

Since clearly $0 = 0$, we conclude that $1 = 0$.

What is the truth table for the proposition $\neg p \Rightarrow \text{False}$?