

Team Assignment 5

Team Number and Initials _____

Prove that the following languages are regular or non-regular:

1. $\{ww \mid w \in \{0, 1\}^*\}$

2. $\{1^n \mid n \text{ is divisible by } 4\}$

3. $\{w \mid w \text{ has more 0s than 1s}\}$

4. $\{0^n 1^n \mid n \leq 5\}$

5. $\{w \mid w \text{ is a palindrome of 0 and 1}\}$

6. $\{1^n \mid n \text{ is prime}\}$