

Team Assignment 7

Team Number and Initials _____

Create Turing machines for each of the following languages,
where $\Sigma = \{a, b, c\}$.

1. $\{w \mid w \text{ is of even length}\}$

2. $\{w \mid w \text{ is a palindrome}\}$

3. $\{a^n b^n c^n \mid n \geq 0\}$

4. $\{a^i b^j c^k \mid i + j = k, \text{ and } i, j, k \geq 0\}$

5. $\{a^i b^j c^k \mid i \times j = k, \text{ and } i, j, k \geq 0\}$