- ^{1.} Suppose C={w|w has an equal no. of Os and 1s} is regular. Consider s = 0^p1^p, where p is the pumping length for C. Suppose s= xyz, where x is ε. Which of the strings below would still be in C? (3 points)
 - √1.xyz
 - ²·xyyz
 - ³.xyyyz
 - ⁴. all of the above

- ². Suppose C={w|w has an equal no. of Os and 1s} is regular. Consider s = 0^p1^p, where p is the pumping length for C. Suppose s= xyz, where x is ε. Which of the strings below would still be in C? (3 points)
 - 1. XZ
 - ²·xyyz
 - ³.xyyyz
 - ✓⁴ none of the above

- 3. The **minimum pumping length** (mpl) for a language A is the smallest integer p that is a pumping length for A. It can be shown that the mpl is the **maximum** number of transitions you can take in a minimized DFA for the language without repeating a state. For the language A defined by the reg. expression 01*, the mpl is 2. What would be the mpl of the language B defined by the reg. expression 0001*? *(3 points)*
 - A. 5
 - **√** B.4
 - C.3
 - D.2