CSCI 1900 - Homework 5-B

**Section 13.4: Regular Expessions**  *(8 points)*

1. Let show that the following expressions are regular over *A.*
   1. (1)
   2. (1)
2. Let .
   1. Give the regular set corresponding to the regular expression (1)
   2. Give the regular set corresponding to the regular expression (1)
3. Let .
   1. Does the string *zz* belong to the regular set corresponding to (1)
   2. Does the string *zxxxxy* belong to the regular set corresponding to (1)
   3. Does the string *zzxxyy* belong to the regular set corresponding to (1)
4. Give the regular expression over the alphabet { r, s, t ) for the set of strings that begin and end with an r , and contain at exactly 3 s’s or at least 1 t (1).