Worksheet 1\_Set Theory:

1. Determine if the following sets are power sets of some unknown sets:



1. Determine the elements of .
2. If , and , then find ?
3. Let

Find ?

1. Let   
   then find
2. In a group of 60 people, 27 like cold drinks, 42 like hot drinks and each person likes at least one of the two drinks. How many like both coffee and tea?
3. In a group of 100 persons, 72 people can speak English and 43 can speak French. How many can speak English only? How many can speak French only? And how many can speak both English and French?
4. Prove using

* Set Identities
* Membership table

1. Show that , by showing that each side is subset from the other.
2. Show that