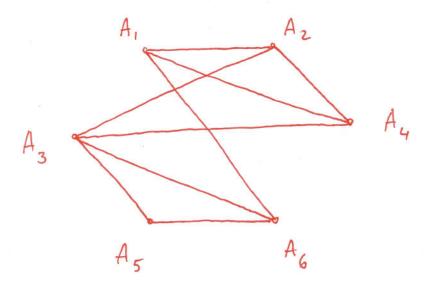
1. { 5 points } Construct the intersection graph for the following collection of sets.

$$A_1 = \{0, 1, 2, 3\}$$
  $A_2 = \{2, 4\}$   $A_3 = \{4, 5, 6\}$   
 $A_4 = \{0, 2, 4, 6\}$   $A_5 = \{5\}$   $A_6 = \{1, 3, 5\}$ 



2.  $\{5\text{ points}\}\$  Draw the call graph for the phone numbers 555-1111, 555-2222, 555-3333, 555-6666, and 555-7777, if there are three calls from 555-1111 to 555-6666 and two calls 555-6666 to 555-1111, two calls from 555-3333 to 555-7777, one call from 555-7777 to each of the other numbers, and two calls to 555-2222 from each of 555-1111 and 555-6666.

Label the nodes of the graph by the last digit of the phone numbers.

