


Math 1015 HW #8

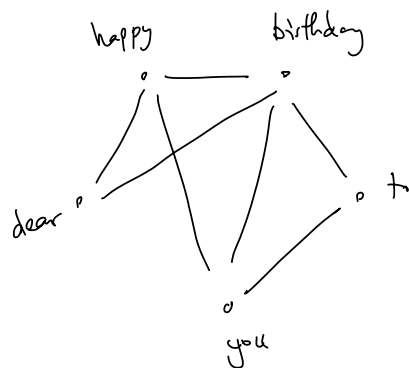
#2, 3, 4, 6

2.

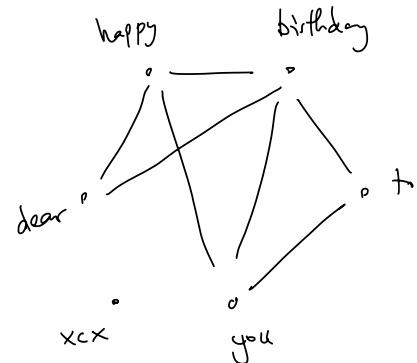
a.  my kid is connected to the 11 other girls on his team, so the degree is 11.

b. It's not connected, since no kid can be joined by a path to a kid on a different team.

3 a.



c.

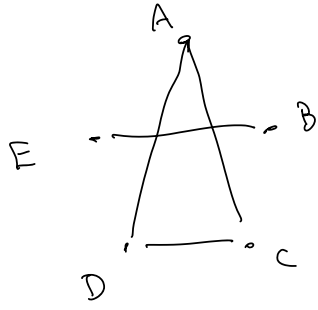


4 a. Smallest would be Maine, which is degree 1 since it borders only New Hampshire.

Tennessee & Missouri have the highest degree of 8, since they each border 8 other states.

d. With AK & HI, it becomes disconnected. All degrees are still the same, but AK & HI are 0.

6.



This is not connected, since there is no path from A to E.