Attendance Quiz # 3 for Dr. Z.'s Number Theory Course for Sept. 12, 2013

NAME: (print!) _____

E-MAIL ADDRESS: (print!) _____

1. List all the 1-2 walks from 0 to 5. Count them and make sure that you get $f_5 = F_6$.

2. Use the combinatorial model (in terms of paths) to prove that for every positive integer n,

$$F_{2n+1} = F_{n+1}^2 + F_n^2 \quad .$$