## MATH 113: DISCRETE STRUCTURES <br> HOMEWORK DUE MONDAY WEEK 7

Problem 1. Prove that

$$
F_{2 n+1}=3 F_{2 n-1}-F_{2 n-3}
$$

for $n \geq 1$. (This gives us a way to compute Fibonacci numbers of odd index without computing those with even index!)
Problem 2. DM:EB 4.2.8.

