

QUIZ 4:

NAME: _____

1) (8 pts) Prove for all natural numbers that $a_n = 2^n - 1$ if $a_1 = 1, a_2 = 3$ and $a_n = 3a_{n-1} - 2a_{n-2}$ for all $n \geq 3$.

2) (7pts) Prove that a linear function $ax + b$ is bijective when $a \neq 0$.