# Math 4363 - Combinatorics
# Homework 9
## Due - Sunday 3 May 2020 11:59pm

1. Solve the non-homogeneous recurrence relation

$$h(n) = 4h(n-1) + 3 \cdot 2^n$$

with initial value $h(0) = 1$.

2. Solve the non-homogeneous recurrence relation

$$h(n) = 2h(n-1) + n$$

with initial value $h(0) = 1$.