## COSC201: Tutorial Week 4 Proofs: Recurrences, Iteration and Induction

Solve the following by iteration<sup>1</sup> and prove your solution correct by induction.

- Solve for g(n): g(1) = 0 g(n) = g(n-1) + (n-1)

  Solve for f(n):
- f(1) = 1 $f(n) = n \cdot f(n-1)$

If you've done those, finish any of the questions from last week.

<sup>&</sup>lt;sup>1</sup>The method on page 13 of lecture 7 notes