

Quiz 10: December 6, 2018

Left Neighbor: _____

Right Neighbor: _____

Name: _____

Student ID: _____

Section TA: _____

This is a closed book quiz

1. **(5 points)** If $a_n = 7a_{n-1} - 10a_{n-2}$, with $a_0 = 2$ and $a_1 = 1$, Find the closed form for this linear homogeneous recurrence relation of order 2.

2. **(5 points)** Prove your closed form is correct by induction on n .