

# Homework 9 - Gage Farmer

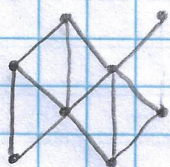
1)  $(6, 5, 2, 2, 2, 1, 1) \rightarrow (4, 1, 1, 1, 0, 0) \rightarrow (0, 0, 0, 0, -1)$

Not graphic - a number becomes negative

2)  $(5, 3, 3, 5, 3, 2, 2, 1) \rightarrow (4, 2, 2, 2, 2, 1, 1)$

$\rightarrow (1, 1, 1, 1, 1, 1) \rightarrow \dots \rightarrow (0, 0, 0)$

Sequence is graphic



3)  $(8, 8, 7, 4, 4, 2, 2, 2, 1) \rightarrow (7, 6, 3, 3, 1, 1, 1, 1, 1)$

$\rightarrow (5, 2, 2, 1, 0, 0, 0, 0) \rightarrow (1, 1, 0, 0, 0, -1, -1)$

Not graphic - numbers become negative

4)  $(4, 4, 3, 3, 3, 3, 3, 2, 2) \rightarrow (3, 3, 3, 3, 2, 2, 2, 2, 2)$

$\rightarrow (2, 2, 2, 2, 2, 2, 2, 2) \rightarrow \dots \rightarrow (0, 0, 0)$

5)  $(2023, 3, 3, 3, 3)$

Not graphic -  $n > \text{length}$

