## Problem Set 4.2

1-3] Give the recursive and explicit notation for the arithmetic sequence.
1.) $7,13,19,25, \ldots$
Recursive:
2.) $-3,-10,-17,-24,-31, \ldots$
Recursive:
3.) $\frac{2}{3}, 1, \frac{4}{3}, \frac{5}{3}, 2, \frac{7}{3}, \ldots$
Recursive:

Explicit:
Explicit:
Explicit:
4.) What is the $143^{\text {th }}$ term of the sequence in number 2 ?
5.) Find the explicit formula for the arithmetic sequence where $\mathrm{a}_{24}=187$ and the common difference is 3 .
6.) Find the explicit formula for the arithmetic sequence where $a_{10}=-26$ and $a_{20}=-56$.
7.) Find the explicit formula for the arithmetic sequence where $b_{4}=19, b_{5}=15$, and $b_{6}=11$.
8.) Find the explicit formula for the arithmetic sequence where $\mathrm{a}_{7}=4$ and $\mathrm{a}_{12}=-9$.
9.) Sol LeWitt's sculpture Four-Sided Pyramid in the National Gallery of Art Sculpture Garden is made of concrete blocks. As shown in the diagram below, each layer has 8 more visible blocks than the layer in front of it. Write an explicit formula that gives the number of visible blocks in the $n^{\text {th }}$ layer where $\mathrm{n}=1$ represents the front layer.


