DS 5110 Dynamo Consistent Hashing

Token map:

`token(n1) = {-2, 4}` `token(n2) = {-7, 0}` `token(n3) = {-5, 2, 6}`

Q1. How many nodes are there? How many *vnodes*?

Q2. Which node likely has greater resources (memory, storage, etc.)?

Q3. One of the vnode positions of `n3` is drawn in the ring below. Draw the rest.

```
            n3
-8| -7| -6| -5| -4| -3| -2| -1| 0| 1| 2| 3| 4| 5| 6| 7| 8
```

Q4. What node is responsible for each of the following tokens?

-4: _____ 1: _____ 7: _____

Q5. A row's key is ("A"). Assume `token("A") = -1`, which node owns this row?