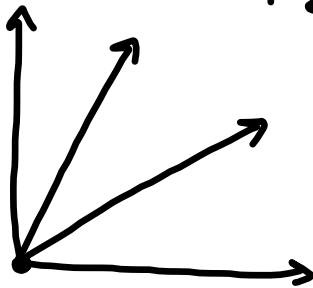
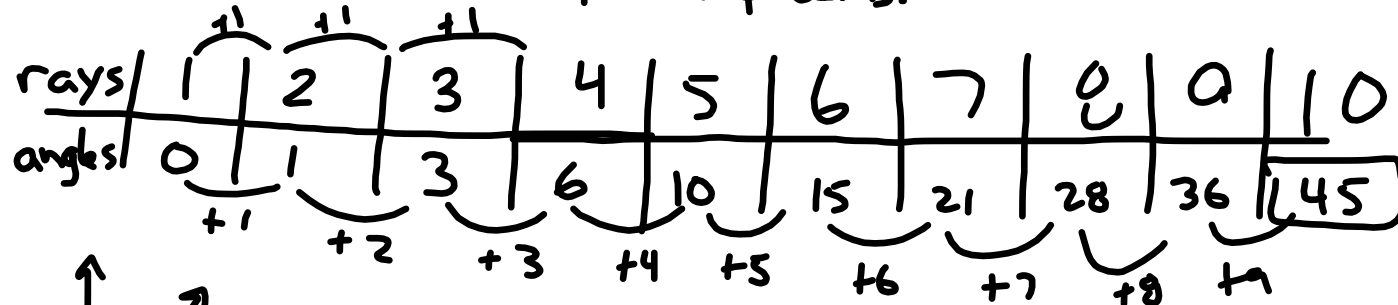


## Section 6.2 Look for a Pattern

Obj: Find Patterns to help solve problems.



What is the remainder when  $3^{200}$  is divided by 5?

$$3^1 = 3 \rightarrow 3$$

$$3^2 = 9 \rightarrow 4$$

$$3^3 = 27 \rightarrow 2$$

$$3^4 = 81 \rightarrow 1$$

$$3^5 = \quad \rightarrow 3$$

$$3^6 = \quad \rightarrow 4$$

(1)

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7-13 all