* 1. Making Conjectures: Inductive Reasoning

**Inductive reasoning** is where one notices ***patterns***, and after looking at several examples, makes some sort of conclusion (inference).

**Conjecture:**  A statement that is believed to be true – but is not yet proved

**Ex.** 1, 3, 5, 7, ….

Conjecture :

**Ex.**

Figure 1 figure 2 figure 3 figure number number of sides

Figure 4 figure 5

Conjecture:

**Theorem:** A statement that has been proven

Conjecture Theorem

Example:

1 4 9 16 25 36 49 64 81 100

Conjecture 1:

Conjecture 2:

Example:



Example:

**1+ 7 = 8**

**3 + 19 = 22**

**45 + 9 = 54**

Pg 13 # 6-9, 11-13, 16, 17, 19, 21