* 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**

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