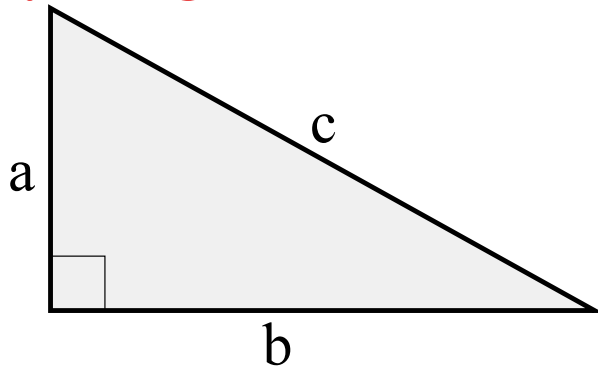# I. Word Problem Guidelines #1

1. Identify/record the unknown(s)

2. Assign a variable (expression for each unknown*)

3. Identify/record the knowns (given info); using phrases, pictures, diagrams, tables, etc.

4. Determine a relationship (*e.g.*, an equation) between the unknown and the known quantities

5. Solve and use the solution as needed to answer the original problem (refer to step 1)

☞ *If there are two (or more) unknowns to be solved for, assign a variable to one unknown and then represent the others using expressions which involve that variable (*i.e.*, by how they relate to the unknown labeled with the variable)...

II. Examples (p.438): Problems #**2**,4,10,14

III. Pythagorean Theorem (p.435):

___ + ___ = ___

IV. Example (p.438): Problems #18,**20**

HW: p.438 / Problems #1,7,9,11,13,15,17,19