I. **Quadratic Equation** in One Variable (p.582):

$$ax^2 + bx + c = 0 \quad \text{(general form)}$$

II. Methods of solution:

1. Factoring (5.7)
2. Square Root Property (8.1)
3. Completing the Square (8.1)
4. Quadratic Formula (8.2)

III. Square Root Property (p.583):

$$x^2 = k \quad \Rightarrow \quad x = \pm\sqrt{k}$$

note: SRP is most useful when b = 0
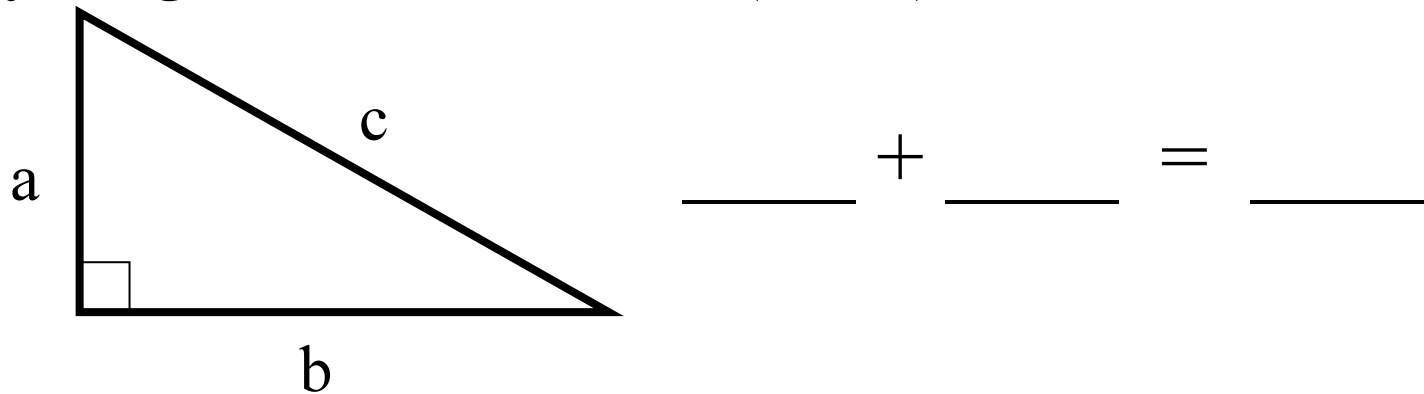
IV. Examples (pp.592-593): Exercises #6,10,16,22

V. Completing the Square (p.587):

subtract constant term ("c"), obtain a = 1,
add $(0.5b)^2$, factor, and then use the SRP

VI. Examples (p.593): Exercises#40,46,56

VII. Pythagorean Theorem (p.591):

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

VIII. Example (p.595): Exercise #86

HW: pp.592-593 / Exercises #1,5,7,9,15,19,23,31,
35,41,47,51,57,85,87

Read pp.596-606 (section 8.2)