**Applications of College Algebra**

**Chapter 10 – Geometry**

**10.2 – Triangles**

1. A tree casts a shadow 12 feet long. At the same time, a vertical rod 8 feet high casts a shadow that is 6 feet long. How tall is the tree?
2. A baseball diamond is actually square with 90-foot sides. What is the distance from home plate to a second base?

Property of Triangle

1. Has 3 sides
2. Sum of interior angles equal 180º.
3. Sum of 2 shorter legs is greater than the longest leg.

Scalene –

Obtuse –

Acute –

Right –

Isosceles –

Equilateral –

Congruent triangles –

Similar triangles –

Pythagorean Theorem –

**Homework 10.2 p547 #5-23, 27, 29, 35, 39-43, odd, 54-56**