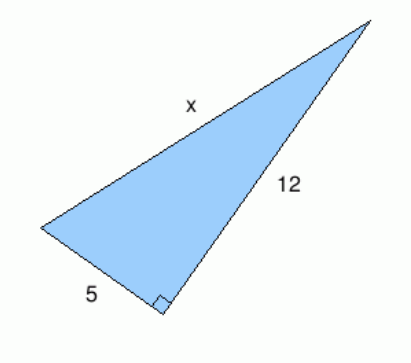
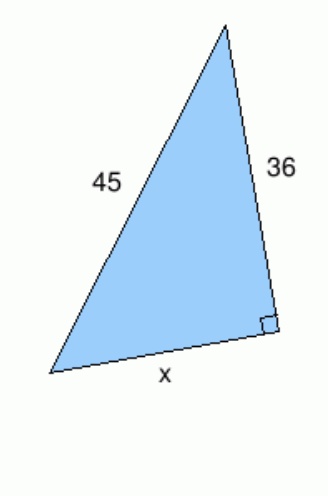
Assignment 8.2 – Pythagorean Theorem

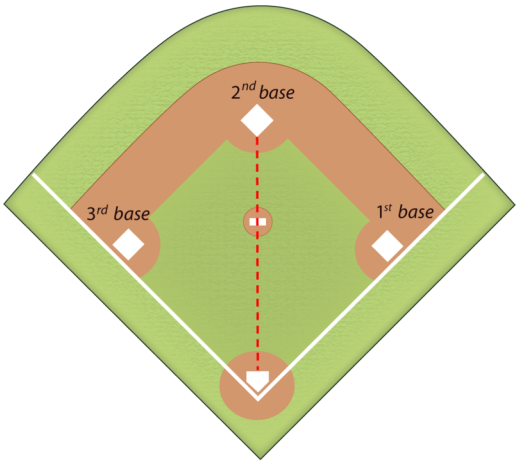
1. Find x. Do the sides of the triangle form a Pythagorean Triple? Y or N



2. Find x. Do the sides of the triangle form a Pythagorean Triple? Y or N



3. The bases on a baseball field form a square where the distance between each base is 90 feet. Find the distance between home and 2nd base. Do the sides of the triangle form a Pythagorean Triple? Y or N



4. Determine whether the following 3 lengths of a triangle form a right triangle.

$$\frac{1}{2}, \frac{\sqrt{3}}{2}, 1$$

5. Find x so that the three side lengths form a right triangle.

$$x, \sqrt{6x}, \sqrt{6x+100}$$