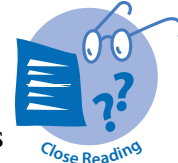


Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Problem-Based Task: Field of Dreams

A square is a quadrilateral with two pairs of parallel opposite sides, consecutive sides that are perpendicular, and all sides congruent. The bases and home plate of a baseball diamond form a square. The local recreation department has created a map of its newest baseball field. First base is represented by the point  $(7, -3)$ , second base is represented by  $(4, 6)$ , third base is represented by  $(-5, 3)$ , and home plate is represented by  $(-2, -6)$ . Is this field actually a square? What is the distance from second base to home plate? What is the distance from third base to first base?



SMP	
1	2 ✓
3	4 ✓
5	6
7 ✓	8

