7th Grade Honors Math – Mr. Miller *Homework 8.1*

The Pythagorean Theorem

Plot each pair of points given below on a separate coordinate plane, and then apply the Pythagorean Theorem to determine the ***distance in units*** *between them to the nearest tenth.*

[1] A = (-6, -6) and B = (-2, 3)

[2] C = (3, 1) and D = (6, 4)

Draw a diagram to help you answer each of the following.

[3] A rectangle has three of its vertices located at Q = (1, 0), R = (1, 6), and S = (6, 0). Plot the fourth vertex of this rectangle, and then determine the length in units of one of its **diagonals**.

FINALLY, DO PROBLEMS [4] TO [14] FROM PAGE 452 OF YOUR TEXTBOOK. Before attempting these problems, carefully READ the text and examples on pages 450-451. Be sure to copy each problem and show all work done to solve it in your Math Notebook!