Orange County Public Schools (OCPS)
Geometry Honors End-of-Course Review (2010-2011)

Directions: Read and answer each question. You may use a 4-function calculator and the Algebra 1 End-of-Course and Geometry End-of-Course Assessments Reference Sheets. If you have forgotten a particular skill, the lesson number **(for the McDougal Littell Geometry**) is provided as a reference for each problem.

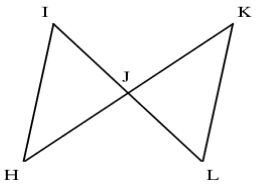
1. Write an equation in point-slope form of the line through point J(–9, –8) with slope 5. **(Section 3.6)**

2. Give the slope-intercept form of the equation of the line that is perpendicular to $-7x + 9y = 13$ and contains P(–10, –3). **(Section 3.7)**

3. Complete the proof. **(Throughout Sections 4.2 to 4.4)**

Given: $\angle H \cong \angle K$ and $\overline{HJ} \cong \overline{KJ}$

Prove: $\overline{IJ} \cong \overline{LJ}$



4. Where can the perpendicular bisectors of the sides of a right triangle intersect? **(Section 5.2)**

5. Three security cameras were mounted at the corners of a triangular parking lot. Camera 1 was 138 ft from camera 2, which was 155 ft from Camera 3. Cameras 1 and 3 were 118 ft apart. Which camera had to cover the greatest angle? **(Section 5.5)**

6. Could the lengths given for each of the following be the lengths of the sides of a triangle? Explain your reasoning
   7, 25, 10 ; 10, 15, 22 ; 20, 5, 10 ; 15, 9 , 24 **(Section 5.5)**

7. Given the coordinates of a triangle are : A (-4, 1) ; B (-3, 5) ; C (-1 , 1), graph the triangle:
   a.) reflect the triangle over the x-axis b.) reflect the original triangle over the y-axis. **(Section 7.2)**

8. Based on the pattern, what is the next figure in the sequence? **(Section 1.1)**