Math 11   <u>Coordinate Geometry Review #2</u>

1. Determine an equation of the line satisfying the given conditions:

   a) through (-5, 1) and having a slope of $\frac{1}{2}$
   b) through (-6, 2) and (5, -3)
   c) through (1, 6) and parallel to 3x + y = 4
   d) containing (-5, 0) and perpendicular to -2x – y + 3 = 0
   e) having an x-intercept of 4 and a y-intercept of -3.
   f) having a slope of 2 and an x-intercept of 5
   g) having a y-intercept of 2 and a slope of $\frac{1}{2}$

2. Given that ΔPQR has the coordinates: P(-2, -5); Q(-1, 6); R(5, -6),
   determine…

   a) the equation of the right bisector for PQ
   b) the equation of the altitude drawn from vertex R
   c) the equation of the median drawn from vertex Q

3. Solve by graphing: x + y = 4
                             x – 2y = 10
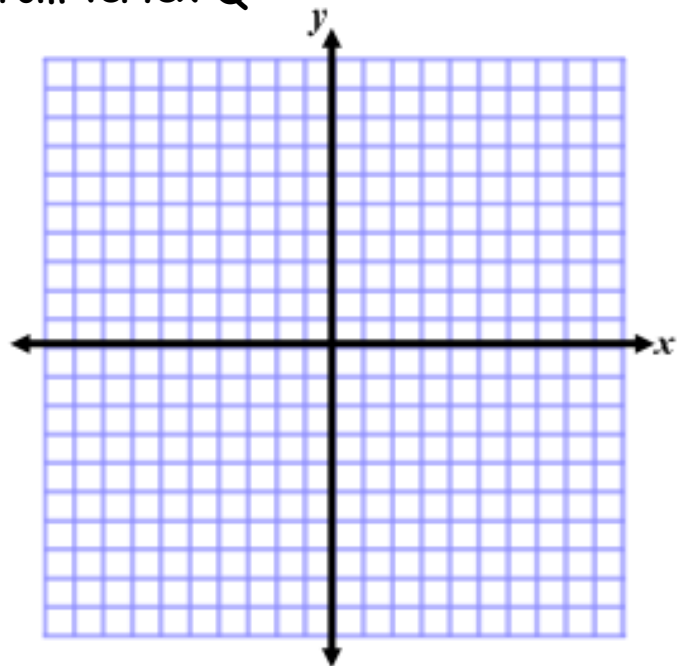
4. Solve by substitution: 3x + 7 = 2
                                 2x + 5y = 23

5. Solve by elimination: 2x + 5y = 19
                                3x – y = 3