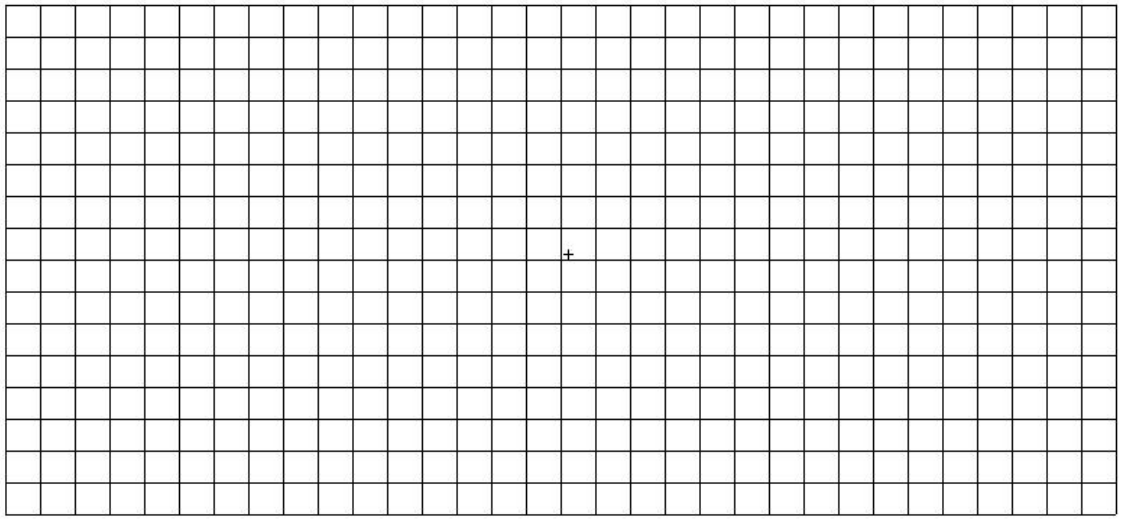
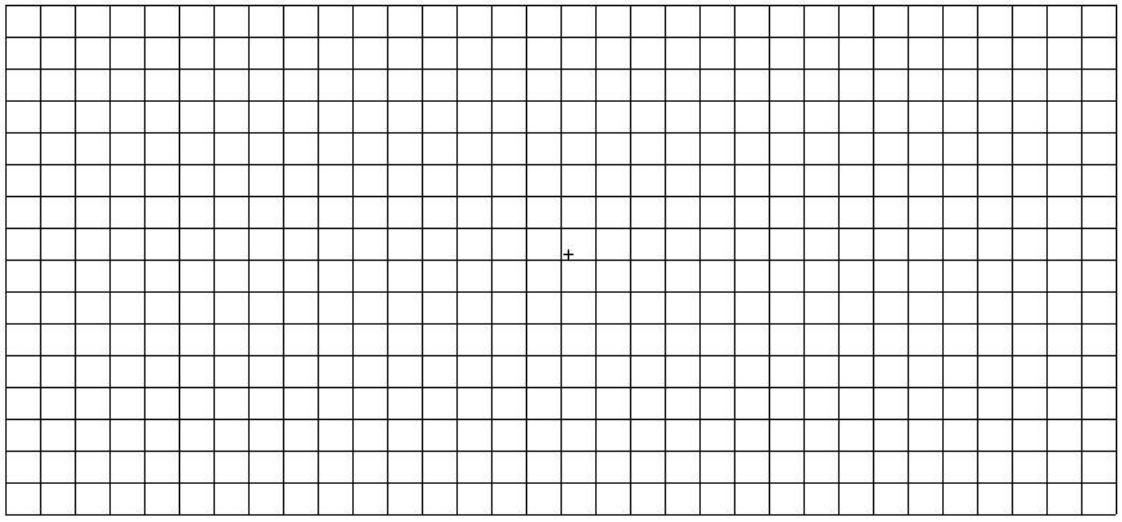
Linear Functions

1. Graph using the indicated method:
   a) Table of Values: $4x + 3y = 12$



   b) Using slope and y-intercept: $3x + 5y = 40$



2. Determine the information requested
   a) Given the points (-7, -4) and (9, 2) find
      i) slope ii) midpoint iii) distance between points

   b) from the equation $7x - 3y = 21$ determine
      i) y-intercept ii) x-intercept iii) slope of a iv) slope of a

	line parallel to given line	line perpendicular to given line

3. Determine the equation of the line given:

a) $m = -2/3$ and $b = 5$

b) $m = 3/4$ and contains point (-5,3)

c) passes through the points (4, 7) and is parallel to y-axis

d) passes through the point (-2, 5) and is perpendicular to y-axis

e) passes through the point (-2, 1) and is parallel to a line passing through points (-5, 3) and (7, 9)

f) passes through the point (-4, -2) and is perpendicular to a line having an equation of $4x - 5y = 6$

g) the equation of the perpendicular bisector of a line segment defined by the points (9, -2) and (-7, 6).