Instructor: Prof. A. Suciu   Name: _____
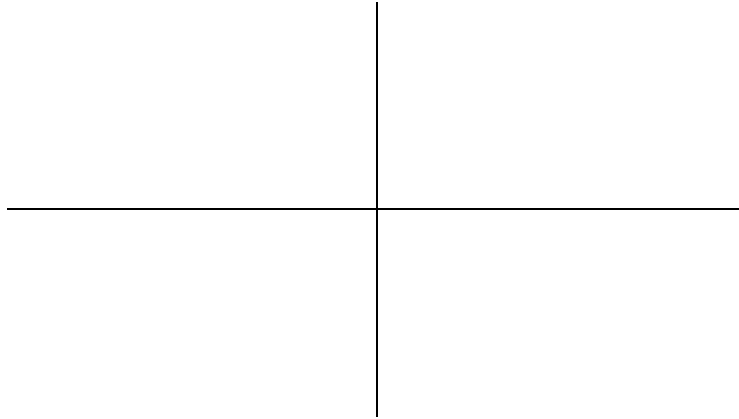
MTH 1101 — QUIZ 1 — FALL 1996

Instructions: Put your name in the blanks above. Put your final answers to each question in the designated spaces on these test pages. Show your work—if there is not enough room, use the back of the page.
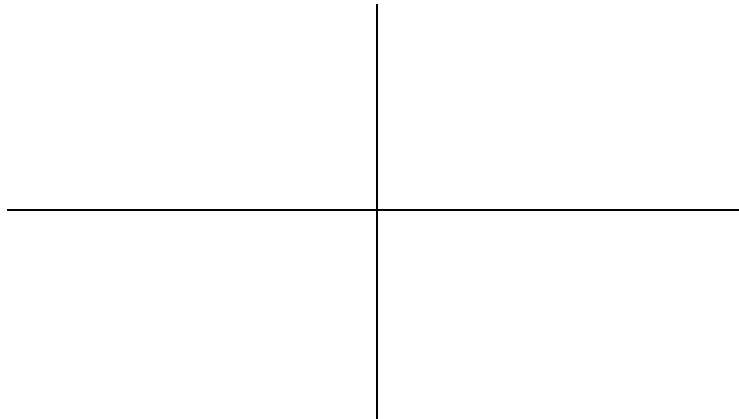
1) For each of the following linear equations, draw the corresponding graph, and find the intercepts (if a given intercept does not exist, say so).
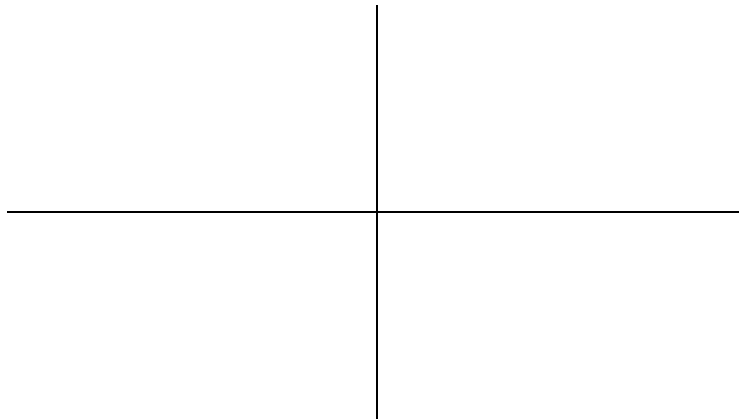
   a) $-3x + 4y = 12$ x-intercept = _____ y-intercept = _____

   b) $2x - y = 0$ x-intercept = _____ y-intercept = _____

   c) $2x = 5$ x-intercept = _____ y-intercept = _____

2) Use either the addition or the substitution method to solve the following system of equations:

$$3x - y = -1$$
$$9x - 2y = -4$$

3) Solve the following system of linear inequalities:

$$3x + 2y \leq 6$$
$$x - y > -1$$
$$y \geq 0$$