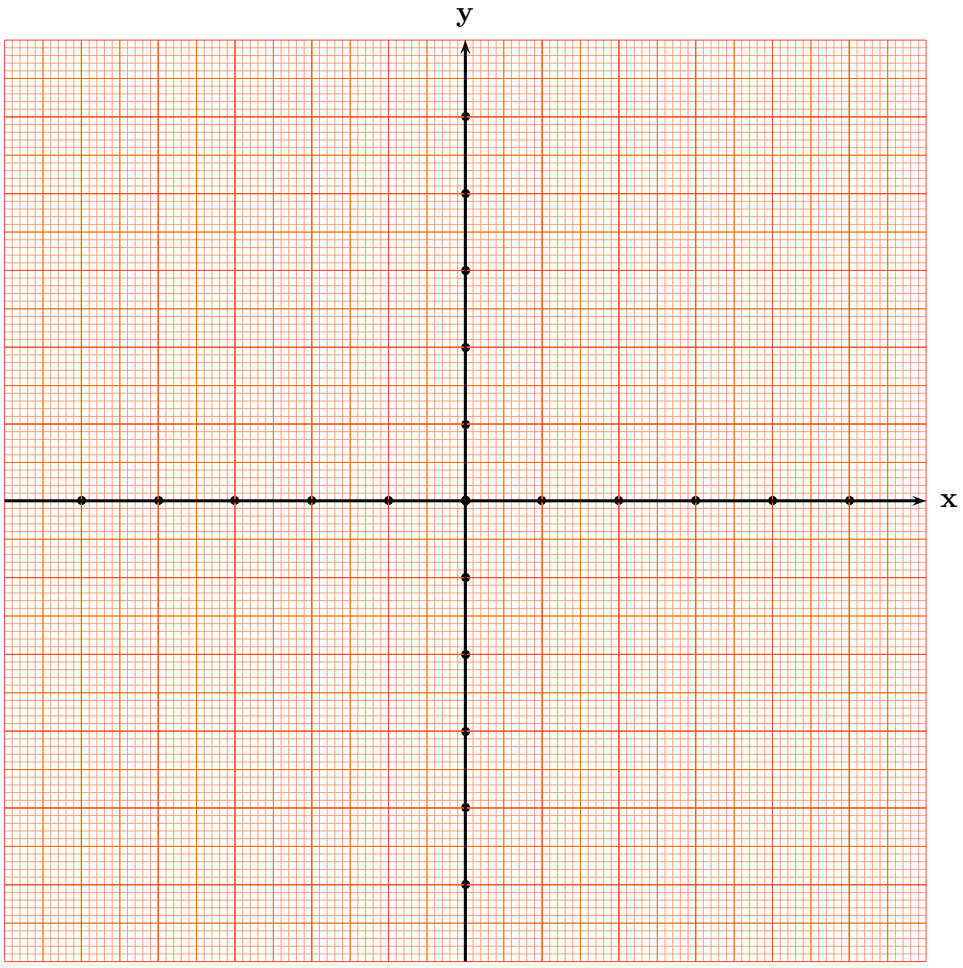
Math 05 Fall 2005, Quiz 4
Instructor: N. Apostolakis
October 31 2005 **Name:** _____

1. Graph each of the following lines in the space provided.
    1. $2x + 3y = 6$
    2. $x = 5$
    3. $y = -2$



2. Find the equation of a line that

    1. has slope $m = -2$ and passes through the point $(0, 4)$,
    2. is parallel to the line with equation $4x - 2y = 6$ and passes through the point $(3, 0)$,
    3. is perpendicular to the line with equation $y = 3x$ and passes through $(3, 4)$.

3. Find the equation of the line whose graph is shown in Figure 1

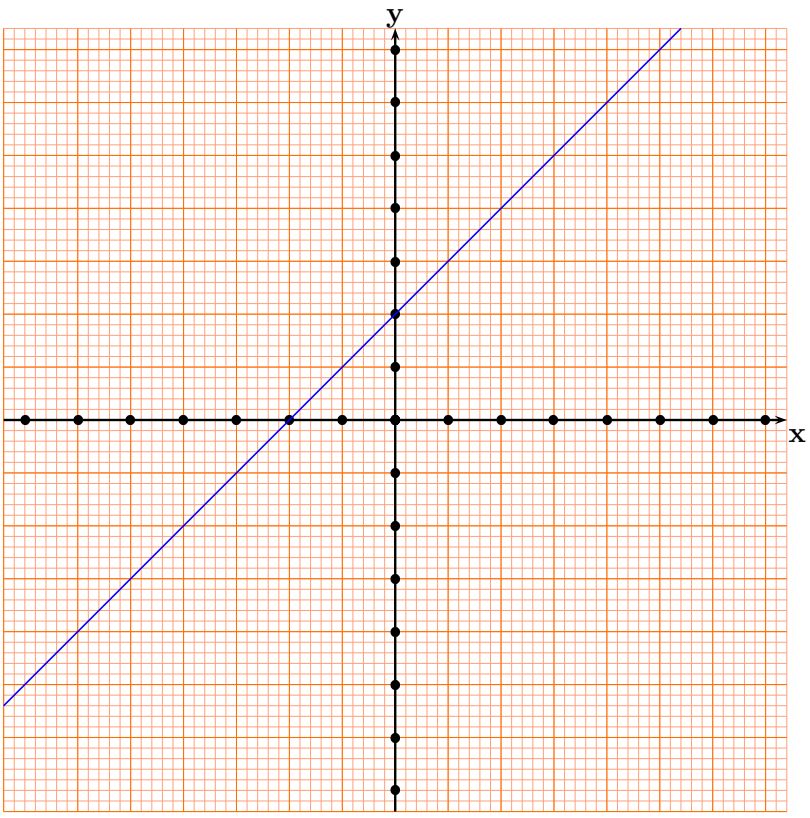


Figure 1: The line of question 3

Hint. Use the given graph to find two points that lie on this line.

4. Find the equation of a line that has the same x-intercept as the line $y = 4x - 4$ and the same y-intercept as the line $y = x - 2$.