Homework for Week 3

Written Homework

Your carefully written solutions to the following questions will be due at the beginning of class on Wednesday, April 22.

1 Find the equation of a line that passes through the points (3, 4) and (5, 10). Write the equation in the form $y = mx + b$.

2 Find the equation of a line that passes through the points (1.2, 2) and (1.7, 2.4). Write the equation in the form $y = mx + b$.

3 Determine the y-intercept of a line that passes through the points (1, 1) and (3, 10).

4 A triangle is formed by the x-axis, the y-axis and the line through the points (1, 4) and (3, 2). Graph these lines, shade in the triangle, and find the area of that triangle.

5 Carefully graph the lines $y = 2x - 1$ and $y = 5 - x$ on the same coordinate plane. From the graph, read the coordinates of the point where the two lines cross. (For accuracy, use a straight edge or ruler to draw the lines and do it on a preprinted grid.)