PRACTICE EXAM III

MAT092 · SUMMER 2008

The use of calculator is not required for this exam.

Problem 1. Sketch the graph of the linear equation

$$3x + 2y = 4$$

Problem 2. Find the slope and y-intercept of the line through the points $(0, 1)$ and $(3, 10)$.

Problem 3. Determine the equation of the line that passes through the points $(1, 3)$ and $(5, -1)$.

Problem 4. Put the equation $3x + 2y = 12$ in slope-intercept form; that is,

$$y = mx + b.$$

(a) What is the slope?
(b) What is the y-intercept?

Problem 5. Put the equation $5x + 3y = 15$ in slope-intercept form. What is the slope? What is the x-intercept

Problem 6. Solve the following system of equations using the addition method.

$$\begin{cases} 7x + 5y = 33 \\ 3x - 4y = 8 \end{cases}$$

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