HOMEWORK 1 - MATH 111

DUE DATE: Friday, September 13 INSTRUCTOR: George Voutsadakis

Read each problem very carefully before starting to solve it. Each question is worth 1 point. It is necessary to show your work. Correct answers without explanations are worth 0 points.

GOOD LUCK!!

- 1. Sketch the graph of y = x + 1.
- 2. Find the x- and y-intercepts of the graph in 1.
- 3. Sketch the graph of y = -2x 1.
- 4. Find the x- and y-intercepts of the graph in 3.
- 5. The slope of the line passing through the origin and the point (3,1) is

(a)
$$-\frac{1}{3}$$
 (b) 3 (c) $-\frac{1}{2}$ (d) $\frac{1}{3}$

6. The equation of the line having slope m=2 and y-intercept b=1 is

(a)
$$y = -2x+1$$
 (b) $y = x+2$ (c) $y = 2x+1$ (d) $y = \frac{1}{2}x-1$

7. The equation of the line that is parallel to y = 3x + 2 and goes through the point (2,7) is

(a)
$$y = -\frac{1}{3}x - 1$$
 (b) $y = 3x + 1$ (c) $y = -3x + 1$ (d) $y = 3x - 1$

8. The equation of the line that has slope m=2 and goes through the point (2,3) is

(a)
$$y = -2x-1$$
 (b) $y = -2x+1$ (c) $y = 2x+1$ (d) $y = 2x-1$