

MONTGOMERY COLLEGE  
Department of Mathematics  
Rockville Campus

MA 103 KATIRAIE QUIZ #2 Form A SECTIONS (2.1, 2.2, 2.3, 2.4, 3.1) Spring  
08

NAME \_\_\_\_\_ SCORE: \_\_\_\_/ 20  
\*\*\* RETAIN ALL GRADED PAPERS FOR YOUR RECORDS \*\*\*

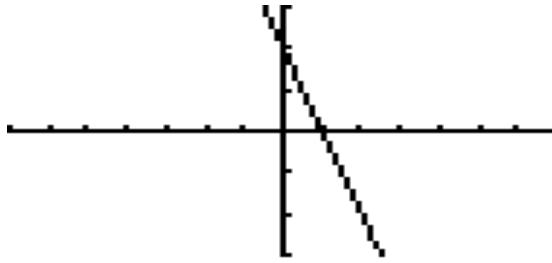
1. Find the slope - intercept form of a line parallel to  
 $2y + 4x = 1$ , passing through  $(-6, 3)$

2. Write the Slope – intercept form for a line passing through  
the points  $(-3, 1)$  and  $(-2, -1)$ .

3. Find the slope - intercept form of a line perpendicular to  $y = \frac{-1}{5}x + 5$ , passing  
through  $(-2, -8)$

4. Write the Slope – intercept form for a line passing through the points

X	-3	0	3	6
F(x)	3	5	7	9



5. Given the Graph of  $F(X)$

Estimate the following:

a)  $F(0)$

b) The  $X$  value so that  $F(X) = -2$

6. In 1990 Toyota sold 1.5 million vehicles. This number increased to 2.8 million in 2003.

a) Find a linear function that models the data.

b) Determine the year when Toyota sold 2.5 million vehicles by solving a linear equation.

c) Determine the number of vehicles Toyota will sell in the year 2009.

7. The length of a rectangular room is 4 feet more than its width. If the perimeter of the room is 100 feet, find the width and length of the room.

