MA 103   KATIRAIE   QUIZ #3 Form A   SECTIONS (2.4, 3.1, 3.2)   Spring 2007

NAME _____   SCORE: _____/ 20
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1.   Find the slope - intercept form of a line perpendicular
      to $-2y-3x=1$, passing through (- 4,- 3)

2.   Find the slope - intercept form of a line parallel to
      $y=\dfrac{-1}{8}x+7$, passing through (- 64, -4)

3. In 1999 Toyota sold 1.7 million vehicles. This number increased to 2 million in 2004.

a) Find a linear function that models the data.

b) Determine the year when Toyota sold 2.1 million vehicles by solving a linear equation.

c) Predict the year when Toyota may sell 2.5 million vehicles.

4. The length of a rectangular room is 4 feet more than its width. If the perimeter of the room is 105 feet, find the width and length of the room.

5. Solve the following equations:

a. $\dfrac{3x}{5} - \dfrac{2x}{4} = \dfrac{1}{6}$

b. $\dfrac{3x+1}{7} = \dfrac{2x-1}{2}$