Math 124 Quiz 9: May 3

Name: __________________________

Correct methods will receive partial credits.

1. We consider the system

   \[ 5x - 4y = -22 \]
   \[ y = 5x - 2. \]

   (a) Find the slopes of the two lines described by the above equations.

   (b) How many solutions (i.e. how many points of intersection) does the system have?

   (c) Find the solution of the system.

2. We consider the system

   \[ 3x - 4y = 8 \]
   \[ 6x - 8y = 9. \]

   (a) Find the slopes of the two lines described by the above equations.

   (b) How many solutions (i.e. how many points of intersection) does the system have?