Equations Systems
03/01/2012

Student Name: _____

Class: _____

Date: _____

Instructions: **Read each question carefully and select the correct answer.**

1. Solve the system of equations.

$4x + 5y = 3$
$2x + y = 0$

A. $\left(\frac{3}{7}, \frac{9}{35}\right)$

B. $\left(\frac{3}{14}, \frac{3}{7}\right)$

C. (2, - 1)

D. $\left(-\frac{1}{2}, 1\right)$

2. A possible step toward solving these equations by addition could be:

4y - 6x = 11
-8x - 4y = 13

A. adding -6x and -8x
B. multiplying 4y - 6x = 11 by -3 and -8x - 4y = 13 by 3
C. subtracting 13 from 11
D. plugging x = 1/7 into the equation -4y - 8x = 13

3. You are planning a vacation for you and a friend and you must choose the most economical places to stay and eat. The Colonial Bed and Breakfast has two vacation plans. Vacation Plan A includes two nights stay and one meal for $106.00. Vacation Plan B includes two nights stay and four meals for $130.00. How much is the Colonial Bed and Breakfast charging for each night's stay and each meal?

A. $93.00 per night / $23.00 per meal
B. $49.00 per night / $8.00 per meal
C. $56.40 per night / $47.20 per meal
D. $81.00 per night / $8.00 per meal

4. Solve this system of equations:

$12x - 5y = 30$
$y = 2x - 6$

A. $x = 5/6, y = -4$
B. $x = 2, y = -6/5$
C. $x = 0, y = 6$
D. $x = 0, y = -6$