Assignment:Linear equation in two variable

Date____

Solve each system by elimination.

1)
$$7x - 9y = -16$$

 $9x + 3y = -6$

C)
$$(-1, 1)$$

$$D)$$
 $(1,1)$

$$2) x + 12y = -5
-5x + 4y = 25$$

A)
$$(0, -5)$$

B)
$$(2,0)$$

C)
$$(-5, 0)$$

D) Infinite number of solutions

3)
$$4x - 5y = 7$$

 $-3x + 8y = -18$

A)
$$(-6, -3)$$

B)
$$(-3, 6)$$

C)
$$(3, 6)$$

D)
$$(-2, -3)$$

$$4) -8x - 7y = -5$$
$$-6x - 8y = 10$$

A)
$$(9, -5)$$

B)
$$(-10, -5)$$

C)
$$(5, -5)$$

D) No solution

Solve each system by substitution.

5)
$$y = 6x + 10$$

 $-6x - 7y = -22$

A)
$$(-1, -3)$$

C)
$$(-1, 3)$$

D)
$$(-1, 4)$$

6)
$$-2x - 2y = -6$$

 $y = -3x - 3$

B)
$$(6, 3)$$

C)
$$(-3, 6)$$

D)
$$(3, 6)$$

7)
$$x + 5y = 2$$

-6 $x - 8y = 10$

A)
$$(-3, 3)$$

B)
$$(-3, 1)$$

C)
$$(-5, 3)$$

D)
$$(-3, -5)$$

$$8) -2x + y = 1$$
$$-3x - 2y = 12$$

A) Infinite number of solutions

B)
$$(-2, -4)$$

C)
$$(-2, -3)$$

D)
$$(-4, 2)$$

9) Shayna and Arjun are selling flower bulbs for a school fundraiser. Customers can buy packages of tulip bulbs and bags of daffodil bulbs. Shayna sold 3 packages of tulip bulbs and 12 bags of daffodil bulbs for a total of \$114. Arjun sold 8 packages of tulip bulbs and 6 bags of daffodil bulbs for a total of \$96. Find the cost each of one package of tulips bulbs and one bag of daffodil bulbs.

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A) package of tulips bulbs: \$6, bag of daffodil bulbs: \$8

B) package of tulips bulbs: \$5, bag of daffodil bulbs: \$11

C) package of tulips bulbs: \$8, bag of daffodil bulbs: \$6

D) package of tulips bulbs: \$7, bag of daffodil bulbs: \$10

10) The school that Julio goes to is selling tickets to a play. On the first day of ticket sales the school sold 14 senior citizen tickets and 2 child tickets for a total of \$58. The school took in \$45 on the second day by selling 7 senior citizen tickets and 3 child tickets. Find the price of a senior citizen ticket and the price of a child ticket.

A) senior citizen ticket: \$3, child ticket: \$8

C) senior citizen ticket: \$2, child ticket: \$4

D) senior citizen ticket: \$2, child ticket: \$13

11) Kathryn and Joe are selling fruit for a school fundraiser. Customers can buy small boxes of oranges and large boxes of oranges. Kathryn sold 5 small boxes of oranges and 13 large boxes of oranges for a total of \$222. Joe sold 6 small boxes of oranges and 7 large boxes of oranges for a total of \$146. Find the cost each of one small box of oranges and one large box of oranges.

A) small box of oranges: \$6, large box of oranges: \$13

B) small box of oranges: \$9, large box of oranges: \$6

C) small box of oranges: \$14, large box of oranges: \$8

D) small box of oranges: \$8, large box of oranges: \$14

12) A boat traveled 342 miles downstream and back. The trip downstream took 9 hours. The trip back took 19 hours. What is the speed of the boat in still water? What is the speed of the current?

A) boat: 40 mph, current: 5 mph

B) boat: 28 mph, current: 10 mph

C) boat: 41 mph, current: 8 mph

D) boat: 14 mph, current: 12 mph

ME

Answers to Assignment:Linear equation in two variable

1) C 5) D

2) C 6) C 10) A 9) A

3) D 7) B 11) D

4) C 8) C 12) B

