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Alg I Elimination Practice

Date_____ Period____

The New: Solve each system by elimination.

1)
$$-4x - 2y = 14$$

 $-x + 2y = -14$

2)
$$-4x + y = -30$$

 $2x - y = 12$

3)
$$10x + 6y = 15$$

 $-20x - 12y = -16$

4)
$$12x - 8y = 0$$

 $4x + 6y = -26$

5)
$$-14x + 10y = 2$$

 $7x + 2y = 20$

6)
$$-4x + 2y = 16$$

 $-3x + 6y = -15$

The Review: Solve each system by substitution.

7)
$$2x - 2y = 14$$

 $y = 2x - 15$

8)
$$3x - y = -16$$

 $y = 4x + 23$

9)
$$x + 2y = -17$$

 $-3x - y = 16$

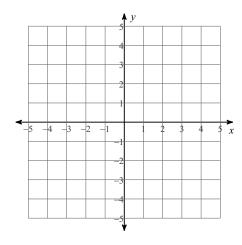
10)
$$5x + y = -9$$

 $-10x - 2y = 18$

The Review: Solve each system by graphing.

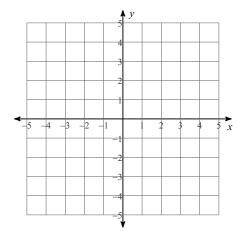
11)
$$y = \frac{3}{2}x - 3$$

 $y = \frac{1}{4}x + 2$



12)
$$y = x + 3$$

 $y = 8x - 4$



The Review: Solve by any method.

13) A boat traveled 288 miles downstream and back. The trip downstream took 9 hours. The trip back took 18 hours. Find the speed of the boat in still water and the speed of the current.

14) Trevon's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 4 adult tickets and 9 child tickets for a total of \$132. The school took in \$160 on the second day by selling 8 adult tickets and 5 child tickets. What is the price each of one adult ticket and one child ticket?

Answers to Alg I Elimination Practice (ID: 1)

1) (0, -7)

2) (9, 6)

3) No solution

5) (2, 3)

6) (-7, -6)

7) (8, 1)

4) (-2, -3)8) (-7, -5)

11) (4, 3) 10) Infinite number of solutions

13) boat: 24 mph, current: 8 mph

9) (-3, -7) 10) Infini 12) (1, 4) 13) boat: 14) adult ticket: \$15, child ticket: \$8