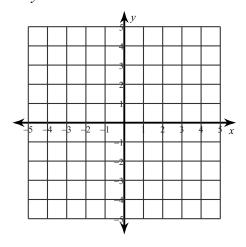
June 18, 2015

Date_____ Period____

Solve each system by graphing.

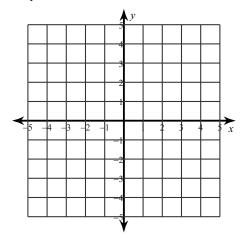
1)
$$y = x - 2$$

 $y = -x + 4$



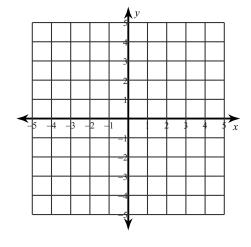
2)
$$y = -2x + 1$$

 $y = x + 4$



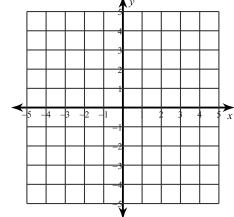
3)
$$y = \frac{5}{3}x + 3$$

 $y = -\frac{2}{3}x - 4$



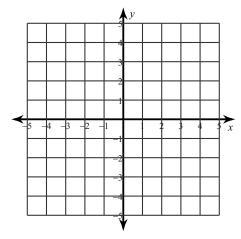
4)
$$y = \frac{4}{3}x - 1$$

$$y = \frac{1}{3}x + 2$$



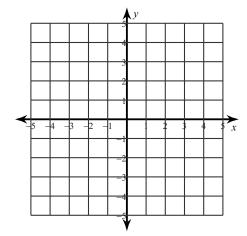
5)
$$3x - 2y = 6$$

 $x + 4y = 16$



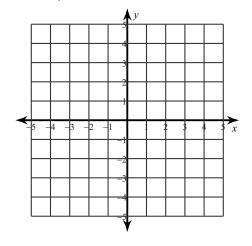
6)
$$3x + 2y = 6$$

 $x - 4y = 16$



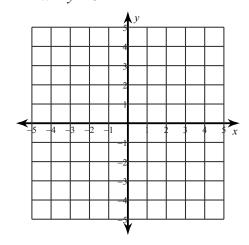
7)
$$x - y = 4$$

 $x + y = -2$



8)
$$2x + y = 1$$

 $2x - y = 3$



Solve each system by substitution.

9)
$$y = -5x + 13$$

 $y = x - 11$

10)
$$y = -8x - 21$$

 $y = -4x - 13$

11)
$$y = 4x + 24$$

 $-x - y = 1$

12)
$$y = 7x - 16$$

 $6x - 2y = 16$

13)
$$x + 3y = 3$$

 $7x + 5y = -11$

14)
$$-3x + y = 17$$

 $3x - y = -17$

Solve each system by elimination.

15)
$$8x - 6y = 4$$

 $-8x + y = 26$

16)
$$5x + 10y = 5$$

 $-5x + 7y = 12$

17)
$$-6x - 3y = 3$$

 $9x - 3y = -12$

18)
$$-7x - 2y = 28$$

 $-7x + y = 7$

19)
$$9x + 2y = -15$$

 $8x - 6y = 10$

20)
$$5x - 10y = 10$$

 $10x - 20y = 20$

21)
$$-5x - 5y = -5$$

 $7x + 6y = 2$

22)
$$-8x + 7y = -6$$

 $-6x + 5y = -4$

23) Bill and Natalie are selling fruit for a school fundraiser. Customers can buy small boxes of grapefruit and large boxes of grapefruit. Bill sold 7 small boxes of grapefruit and 1 large box of grapefruit for a total of \$81. Natalie sold 13 small boxes of grapefruit and 1 large box of grapefruit for a total of \$141. Find the cost each of one small box of grapefruit and one large box of grapefruit.

24) Adam and Eugene are selling pies for a school fundraiser. Customers can buy cherry pies and blackberry pies. Adam sold 14 cherry pies and 9 blackberry pies for a total of \$261. Eugene sold 4 cherry pies and 9 blackberry pies for a total of \$171. What is the cost each of one cherry pie and one blackberry pie?

25) The water park is a popular field trip destination. This year the senior class at High School A and the senior class at High School B both planned trips there. The senior class at High School A rented and filled 12 vans and 14 buses with 500 students. High School B rented and filled 8 vans and 2 buses with 128 students. Each van and each bus carried the same number of students. Find the number of students in each van and in each bus.

26) The school that Wilbur goes to is selling tickets to the annual talent show. On the first day of ticket sales the school sold 3 adult tickets and 14 child tickets for a total of \$219. The school took in \$138 on the second day by selling 11 adult tickets and 7 child tickets. What is the price each of one adult ticket and one child ticket?

Answers to June 18, 2015 (ID: 1)

1) (3, 1) 2) (-1, 3) 3) (-3, -2) 4) (3, 3) 5) (4, 3) 6) (4, -3) 7) (1, -3) 8) (1, -1) 9) (4, -7) 10) (-2, -5) 11) (-5, 4) 12) (2, -2) 13) (-3, 2) 14) Infinite number of solutions 15) (-4, -6)

16) (-1, 1) 17) (-1, 1) 18) (-2, -7) 19) (-1, -3) 20) Infinite number of solutions 21) (-4, 5) 22) (-1, -2)

20) Infinite number of solutions 21) (-4, 5)
23) small box of grapefruit: \$10, large box of grapefruit: \$11

24) cherry pie: \$9, blackberry pie: \$15

25) Van: 9, Bus: 28

26) adult ticket: \$3, child ticket: \$15