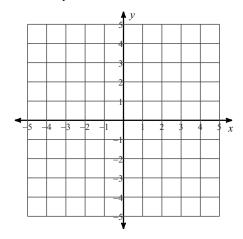
System Unit Review Day 1

Period Date

Solve each system by graphing.

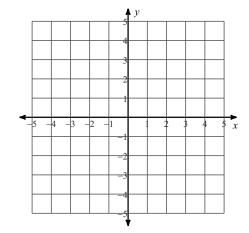
1)
$$3x - 2y = 4$$

 $x - 4y = -12$



2)
$$x + y = 4$$

 $x - 2y = -2$



Solve each system using the best method for how the system is setup.

3)
$$8x - 12y = 16$$

 $6x - 6y = 12$

4)
$$-3x - 5y = -2$$

 $5x + 7y = 6$

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

 $y = 4x - 2$

6)
$$-3x + 3y = -9$$

 $y = -6x - 24$

7)
$$-2x + 8y = 0$$

 $2x + y = 18$

8)
$$5x + 3y = 21$$

 $6x + 8y = 12$

Define your variables, setup a system of equations, show all algebra steps for solving the system using best method, and answer the question with a statement.

9) Mike and Gabriella are selling cheesecakes for a school fundraiser. Customers can buy pecan cheesecakes and apple cheesecakes. Mike sold 2 pecan cheesecakes and 8 apple cheesecakes for a total of \$144. Gabriella sold 14 pecan cheesecakes and 10 apple cheesecakes for a total of \$318. Find the cost each of one pecan cheesecake and one apple cheesecake.

10) Ndiba and Kristin are selling wrapping paper for a school fundraiser. Customers can buy rolls of plain wrapping paper and rolls of holiday wrapping paper. Ndiba sold 7 rolls of plain wrapping paper and 3 rolls of holiday wrapping paper for a total of \$55. Kristin sold 6 rolls of plain wrapping paper and 14 rolls of holiday wrapping paper for a total of \$150. What is the cost each of one roll of plain wrapping paper and one roll of holiday wrapping paper?

Answers to System Unit Review Day 1

1) (4, 4)

2) (2, 2)

3) (2, 0) 7) (8, 2)

4) (4, -2)8) (6, -3)

5) (0, -2)

6) (-3, -6)

9) pecan cheesecake: \$12, apple cheesecake: \$15

10) roll of plain wrapping paper: \$4, roll of holiday wrapping paper: \$9