Acc. Algebra 1	Unit 2 – Systems of Equations	2.6 – Unit 2 Test Review
Name	Date	
1. Solve the following system usin x + 2y = 8 5x - 4y = 12	ng graphing :	
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2. Solve the following system of equations by using *elimination*:

-12x + 5y = 23-2x + y = 3

3. Solve the following system of equations using substitution: y = 5x + 92x + 4y = 14 Solve the following systems of equations using the method of your choice. You must show your work to receive credit.:



Solve each of the following. You must show your equations and work to receive credit.

6. Rent-A-Car rents compact cars for a fixed amount per day plus a fixed amount for each mile driven. Benito rented a car for 4 days, drove it 430 miles, and spent \$92.70. Lisa rented the same car for 5 days, drove it 360 miles, and spent \$110.55. What is the charge per day and the charge per mile for the compact car?

7. You are buying supplies for a party this weekend. Balloons cost \$2.25 a package and streamers cost \$0.85 a roll. If you bought 12 items and spent a total of \$20, how many of each item did you buy?

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REVIEW from Unit 1

8.			
			6
Domain:	Range:		4
Increasing:	Decreasing:	_	2
y – int in function no	otation:	-8 -6 -4 -2	-2
Rate of Change [-6,	. 3]: Zero:		-4
End Behavior: $\begin{array}{c} x \rightarrow \\ x \rightarrow \end{array}$	$-\infty$, $f(x) \rightarrow ___$ ∞ , $f(x) \rightarrow ___$		-6 -8
Nultiple Choice. Circle	the correct letter AND write the	corresponding capital le	etter.
P. Given the following $5x - 2$	g set of equations, which of the v 3v = -7	ariables will require the	FEWEST steps to
	y - y		

isolate? 2x + y = 18

A. x in the first equation

C. x in the second equation

B. y in the first equation

D. y in the second equation

10. Given 4x + 7y = 19-2x - 3y = 18, which is the most efficient first step to solve by elimination?

- A. Multiply the bottom equation by 2
- B. Solve for x in the first equation.
- D. Multiply the top equation by 3 and the bottom equation by 7

C. Multiply the bottom equation by 1/2

11. Given the set of equations: $\frac{-8 - y = -3x}{2x = -25 + 5y}$, what are the coordinates of the solution?

A. (5,-7) B. (5,7) C. (-7,-5) D. (7,5)

12. Which of the following graphs represents the given system of inequalities?

$$x - 3y < 6$$
$$2x - y \ge -3$$



13. The junior and senior classes decided to plan a trip to the Georgia Aquarium this year. The junior class rented and filled 9 vans and 3 buses with 219 students. The seniors rented and filled 5 vans and 9 buses with 349 students. Knowing that each van and each bus carried the same number of students, how many students can a van carry and how many students can a bus carry?

	A. A van carries 11 and a bus carries 41B. A van carries 20 and a bus carries 36	C. A van carrie D. A van carrie	es 13 and a bus carries 42 es 14 and a bus carries 31	
_	14. How many solutions does the following system	m of equations have?	5x = -y + 8 15x + 12 + 3y = 0	
	A. Exactly 1 solutions B. Exactly 2 solution	C. No solutions D. Infinite solut	C. No solutions D. Infinite solutions	
_	15. Which of the following points is a solution to t	x he given system? 3	$-2y \le -4$ $x + 2y > -4$	
	A. (-4,1) B. (4,1)	C. (1,4)	D. (-1,-4)	