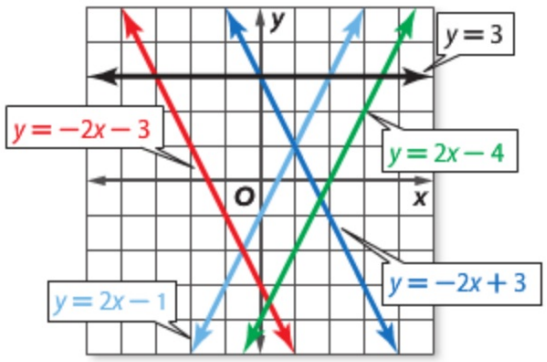
Algebra 1 MCT review
Solve systems by graphing
Solve systems using substitution
Solve systems using elimination

Quiz today 6.3-6.4

Test Fri. 6.1-6.4

Use the graph to determine whether each system is *consistent* or *inconsistent* and if it is *independent* or dependent. (Lesson 6-1)



1. $y = 2x - 1$
$y = -2x + 3$

2. $y = -2x + 3$
$y = -2x - 3$

Graph each system and determine the number of solutions that it has. If it has one solution, name it. (Lesson 6-1)

3. $y = 2x - 3$
$y = x + 4$

4. $x + y = 6$
$x - y = 4$

Use substitution to solve each system of equations.
(Lesson 6-2)

9. $y = x + 4$
$2x + y = 16$

10. $y = -2x - 3$
$x + y = 9$

13. FOOD The cost of two meals at a restaurant is shown in the table below. (Lesson 6-2)

Meal	Total Cost
3 tacos, 2 burritos	$7.40
4 tacos, 1 burrito	$6.45

a. Define variables to represent the cost of a taco and the cost of a burrito.

b. Write a system of equations to find the cost of a single taco and a single burrito.

c. Solve the systems of equations, and explain what the solution means.

d. How much would a customer pay for 2 tacos and 2 burritos?

15. **MULTIPLE CHOICE** Angelina spent $16 for 12 pieces of candy to take to a meeting. Each chocolate bar costs $2, and each lollipop costs $1. Determine how many of each she bought. (Lesson 6-3)

$2c + 1L = 16$

$c + L = 12$

(4, 8)

$\xrightarrow{-1}$ $-c + -L = -12$

$2c + L = 16$

$c = 4$

$8 + L = 16$

$-8 \quad -8$

Use elimination to solve each system of equations.

(Lessons 6-3 and 6-4)

16. $x + y = 9$
$x - y = -3$

$3 + y = 9$
$-3 \quad -3$

$3 - 6 = -3$

$(3, 6)$

$\frac{2x}{2} = \frac{6}{2}$

$x = 3$

17. $x + 3y = 11$
$x + 7y = 19$

$-1 \rightarrow -1x - 3y = -11$
$x + 7y = 19$

$4y = 8$
$\frac{4y}{4} = \frac{8}{4}$

$y = 2$

$x + 3 \cdot 2 = 11$
$x + 6 = 11$
$-6 \quad -6$

$5 + 14 = 19$

$(5, 2)$

4.160 + y = 765 160 adults

20. MULTIPLE CHOICE The Blue Mountain High School Drama Club is selling tickets to their spring musical. Adult tickets are $4 and student tickets are $1. A total of 285 tickets are sold for $765. How many of each type of ticket are sold? 125 students

(Lesson 6-4)

$4x + 1y = 765$

$-1x - 1y = -285$

$3x = 480$ $x = 160$

$ $x + y = 285$

$160 + y = 285$

$-160 \quad -160$

	D	R	T
with	450	P+w	2
against	450	P-w	3