

Name _____

Date _____ Pd. _____

Notes: Substitution Day 2**Example 1**

Use substitution to solve the system of equations.

$$y = 2x$$

$$4x - y = -4$$

Example 2

Solve for one variable, then substitute.

$$x + 3y = 7$$

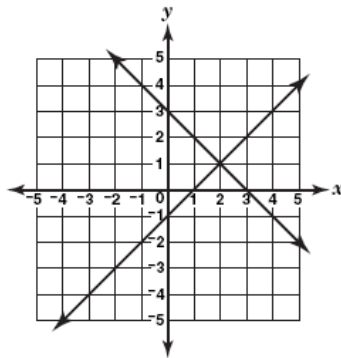
$$2x - 4y = -6$$

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Exit Card: Substitution Day 2

Look at the graph below.



Which of these statements describes the relationship between the two lines?

- F They intersect at the point (2, 1).
- G They intersect at the point (1, 2).
- H They intersect at the point (1, 0).
- J They intersect at the point (0, 3).

The senior class sold school spirit items. The table below shows the number of items sold on the first day of a two-day sale.

SCHOOL SPIRIT ITEMS
SOLD ON THE FIRST DAY

Item	Number Sold
T-shirt	15
Frisbee	14
Hat	22
Pen	23
Ribbon	16

Based on sales from the first day, what is the probability that the first person on the second day of the sale will buy a hat?

	0	0	0	0
	1	1	1	1
	2	2	2	2
	3	3	3	3
	4	4	4	4
	5	5	5	5
	6	6	6	6
	7	7	7	7
	8	8	8	8
	9	9	9	9

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Homework: Pages 379 – 380 (11 – 13, 17, 24, 29)

11.
$$\begin{cases} y = 5x \\ 2x + 3y = 34 \end{cases}$$

12.
$$\begin{cases} x = 4y \\ 2x + 3y = 44 \end{cases}$$

13.
$$\begin{cases} x = 4y + 5 \\ x = 3y - 2 \end{cases}$$

17.
$$\begin{cases} 8x + 2y = 13 \\ 4x + y = 11 \end{cases}$$

24.
$$\begin{cases} x - 3y = 0 \\ 3x + y = 7 \end{cases}$$

29. The base of the triangle is 4 inches longer than the length of one of the other sides. Use a system of equations to find the length of each side of the triangle.

