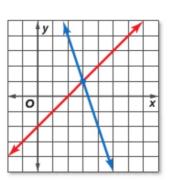
Algebra 1 6.5
Solve systems of equations
Determine the best method to solve a system
Apply systems of equations
solve by graphing
solve by substitution
solve by elimination
whiteboards

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



Whiteboards:

- 1. Determine the best method (substitution or elimination) to solve the system.
- Explain your choice. "We chose substitution because..."
 Solve the system.

2.
$$3x + 4y = 11$$

 $2x + y = -1$

12. FINANCIAL LITERACY For a Future Teachers of America fundraiser, Denzell sold food as shown in the table. He sold 11 more subs than pizzas and earned a total of \$233. Write and solve a system of equations to represent this situation. Then describe what the solution means.

Item	Selling Price	
pizza	\$5.00	25
sub	\$3.00	36

$$\frac{5p+3s=233}{-5p+5s=5s}$$

$$\frac{5p+3s=233}{8s=233}$$

$$\frac{5=p+11}{8s=233}$$

$$(3,0) \qquad -4x+4x-1=3$$

$$(0,5) \qquad \frac{-1=3}{5=4}$$

18. BOOKS The library is having a book sale. Hardcover books sell for \$4 each, and paperback books are \$2 each. If Connie spends \$26 for 8 books, how many hardcover books did she buy?	

- 19. MUSIC An online music club offers individual songs for one price or entire albums for another. Kendrick pays \$14.90 to download 5 individual songs and 1 album. Geoffrey pays \$21.75 to download 3 individual songs and 2 albums.
 - a. How much does the music club charge to download a song?
 - **b.** How much does the music club charge to download an entire album?

\$9.15 20 bums \$1.15 song P. 368