

Algebra 1 6.5

Solve systems of equations

Determine the best method to solve a system

Apply systems of equations

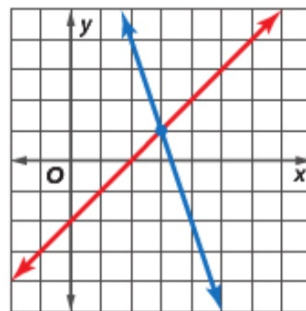
solve by graphing

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.
2. Explain your choice. " *We chose substitution because...*"
3. Solve the system.

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?

$$4h + 2p = 26$$

$$h + p = 8$$

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.

- How much does the music club charge to download a song?
- How much does the music club charge to download an entire album?

$$(K) \quad 5s + 1a = 14.90$$

$$(G) \quad 3s + 2a = 21.75$$

$$\text{Song} = \$1.15 \quad \text{album} = \$9.15$$

$$5 \text{ songs} + 2 \text{ alb.}$$

