Algebra 2 3.4
Solve systems of linear equations n 3 variables
Use systems to solve problems

ordered triple
no solution
infinitely many solutions
substitution
elimination
whiteboards

0=0 inf. nump 0=5 Ns

## Solve each system of equations

1. 
$$-3a - 4b + 2c = 28$$
  
 $a + 3b - 4c = -31$   
 $2a + 3c = 11$ 

How is this problem different?

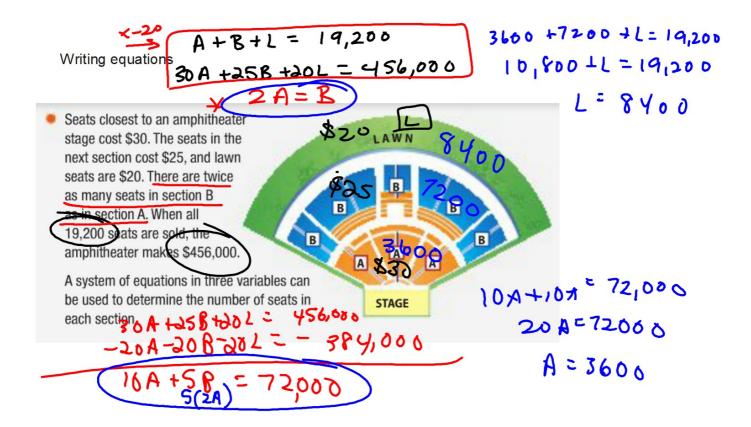
**12.** 
$$-2x + 15y + z = 44$$
  
 $4x + 3y + 3z = 18$   
 $-3x + 6y - z = 8$ 

**b.** 
$$-6a + 9b - 12c = 21$$
  
 $-2a + 3b - 4c = 7$   
 $10a - 15b + 20c = -30$ 

## **Guided**Practice

**2A.** 
$$-4x - 2y - z = 15$$
  
 $12x + 6y + 3z = 45$   
 $2x + 5y + 7z = -29$ 

**2B.** 
$$3x + 5y - 2z = 13$$
  
 $-5x - 2y - 4z = 20$   
 $-14x - 17y + 2z = -19$ 



B=ball g=glove h=hat lobet 36 + 2h = 99 h= 48+86+2h=7828+36+h=33.60