ALGEBRA II
Chapter 3 section 4
Solve Systems of Linear Equations in Three Variables
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FOCUS:
How do you solve a system of lienar equations in three variables?

VOCAB:
Linear equation in three variables:

System of three linear equations:

Solution of a system of three linear equations:

Ordered Triple:

WARM – UP:

Solve by substitution.
x + 2y = -1
3x - y = 18

Solve by elimination.
3x + 4y = -25
3x - 2y = -1

At a local store, 4 rolls of film and 2 batteries cost $20.70. At another store, 6 rolls of film and 1 battery cost $30.15. What is the price of one roll of film?

NOTES:

Solve the system.

2x - y + 6z = -4
6x + 4y - 5z = -7
-4x - 2y + 5z = 9

$x + y - z = 2$
$3x + 3y - 3z = 8$
$2x - y + 4z = 7$

$x + y + z = 6$
$x - y + z = 6$
$4x + y + 4z = 24$

At a carry - out pizza restaurant, an order of 3 slices of pizza, 4 breadsticks, and 2 juice drinks costs $13.35. A second order of 5 slices of pizza, 2 breadsticks, and 3 juice drinks costs $19.50. If four breadsticks and a juice drink cost $0.30 more than a slice of pizza, what is the cost of each item?

Let's see if you comprehended what we worked on in class…

Try _____ for homework