Homework Answers

Pg 121

10. y = .23x + 1.33
y = .15x + 3.67
2007

Pg 161

8. No Solution
9. (-2,0)
10. (3,6)
15. 20 Checks

1980 0
1985 5
1990 10
⋮ ⋮

Pg 163

28. vertices: (4,0) and (2,3)
c = 11 at (2,3)
29. Vertices: (0,0), (4,0), (2,3), and (0,5)
P = 25 at (0,5)
43. (2,5,3)
44. No solution
45. (6,0,-2)

I will also answer questions on the word Problem Homework!

44. $x+2y+z=14$

$-2(y-z=1)$ $\quad -2y+2z=-2$

$-1(x+3z=6)$ $\quad 2y-2z=8$

$0=6$

45. $-5(3x+y-2z=22)$

$x+5y+z=4$

$x+3z=0$

$-15x-5y+10z=-110$

$-14x+11z=-106$

$14(+14x+42z=0)$

$53z=-106$

$z=-2$

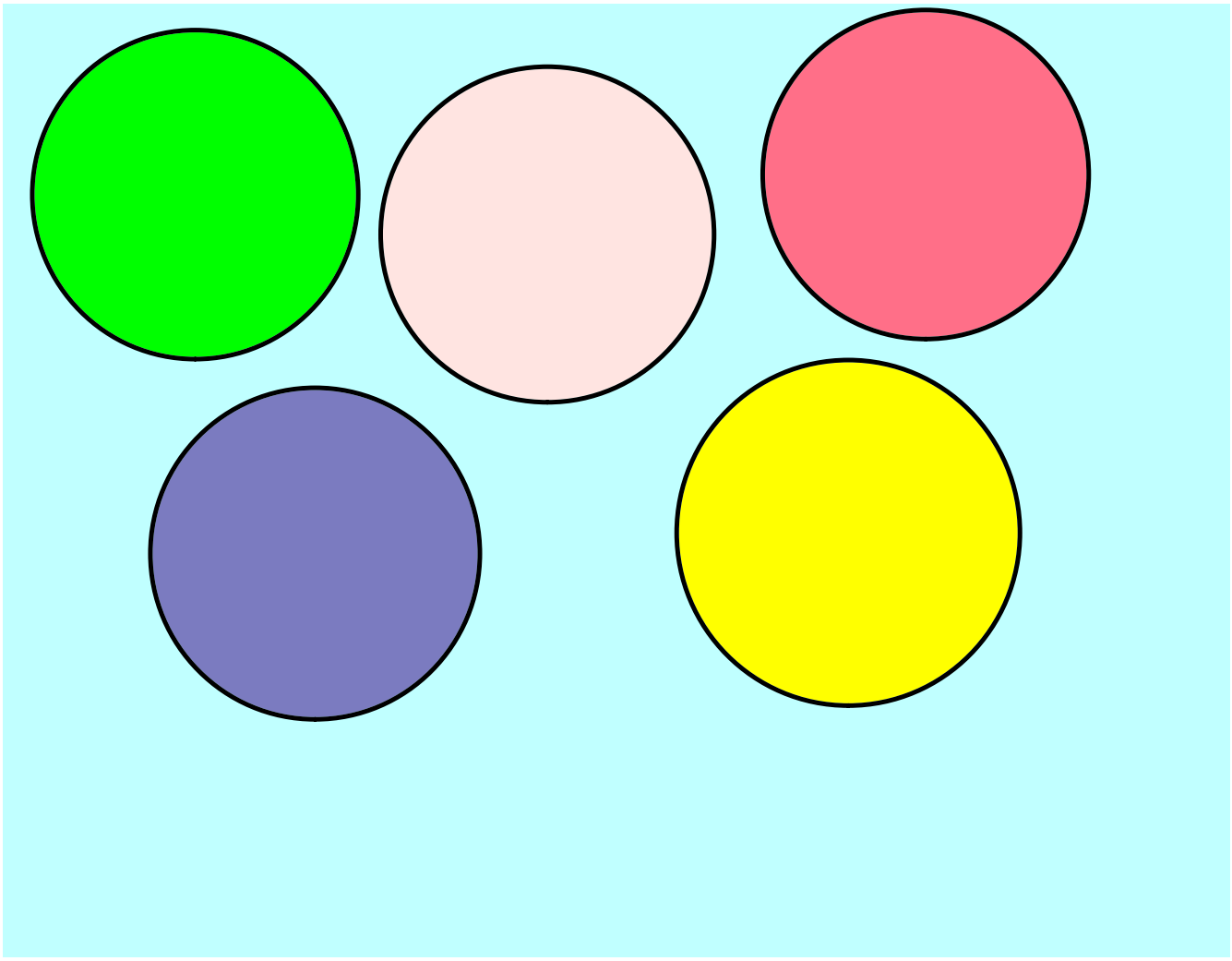
Algebra II - Review Chapter 3

Solving Systems by:
- Graphing
- Substitution
- Elimination

N.S. 2

Graphing Linear and Absolute Value Inequalities
Solving Systems using 3 Variables
Solving Word Problems using Systems with 2 or 3 variables
Linear Programming
Calculator Problem - using Stat --> Calc --> Lin Reg
then finding the intersection using 2nd Trace (Calc)

Lesson objectives | Teachers' notes

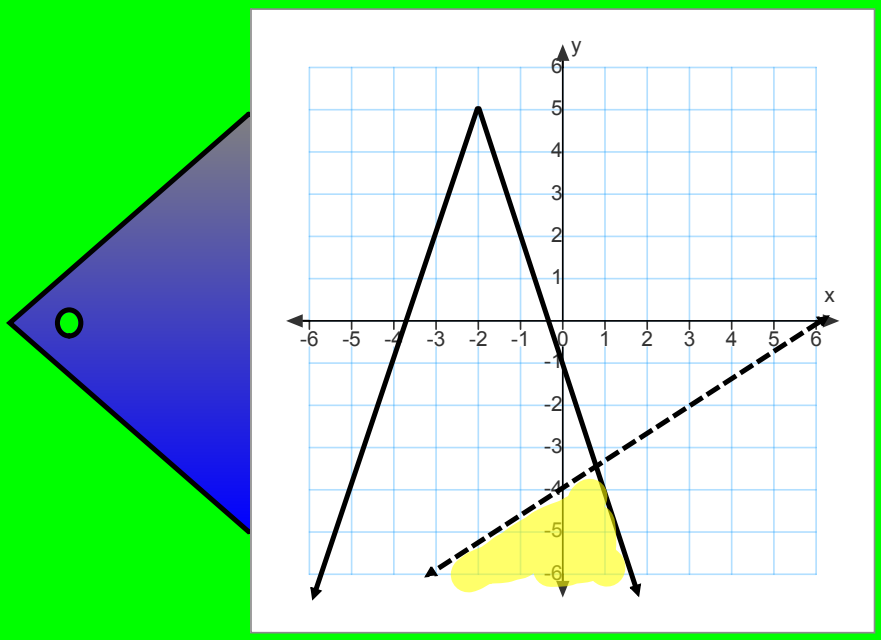


Solve by graphing:

$2x - 3y > 12$

$y \leq -3|x + 2| + 5$

Pull tab to reveal answer

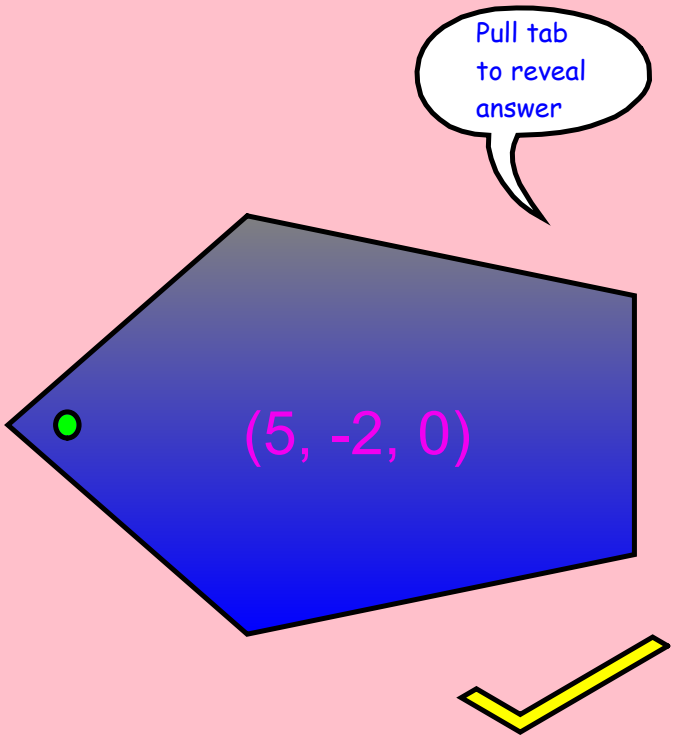


Solve the System:

$x - y + 2z = 7$

$2x + y + z = 8$

$x - z = 5$



Solve the word problem by setting up a system, and solve by using substitution or elimination.

Pull tab to reveal answer

Tickets for your school's play are $3 for students and $5 for non-students. On opening night 937 tickets are sold and $3943 is collected. How many tickets were sold to students? to non-students?

$3x + 5y = 3943$

$-3(x + y = 937)$

$-3x - 3y = -2811$

$3x + 5y = 3943$

$2y = 1132$

$y = 566$

$x = 371$

x = # student tickets

y = # Non

371 students
566 non-students

Median Price of Homes (in thousand
for 1995-2000

Year	Northeast	South
5	126.7	97.7
6	127.8	103.4
7	131.8	109.6
8	135.9	116.2
9	139.0	120.3
10	139.4	128.3

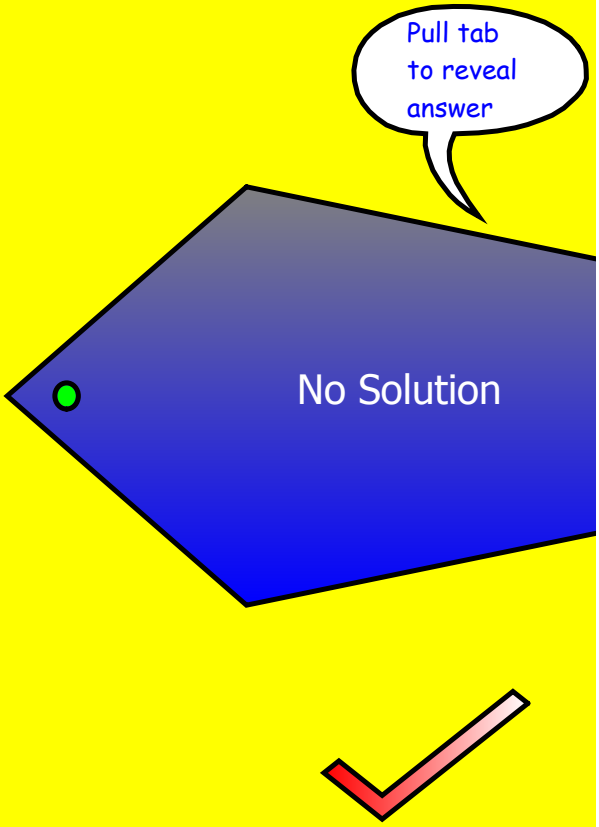
y = 2.89x + 111.75
y = 6x + 67.51
Year 2010
Med Price
$152,860.48

In what year will they be the same?
What will the median price of the homes be?

Solve using substitution.

$x - 5y = 12$

$-x + 5y = -4$



Solve the word problem by setting up a system, and then solving.

Pull tab to reveal answer

A 20 cup bag of cake mix contains cocoa, sugar and powdered milk. The cocoa costs $2 per cup, sugar costs $1.50 per cup and powdered milk costs $2.50 per cup. To manufacture the mix, a company needs to add twice as much sugar than cocoa. The cost of the bag of cake mix is $37.50 How much of each ingredient is needed to make the mix?

x = coc.
y = sug
z = milk

$x + y + z = 20$

$2x + 1.5y + 2.50z = 37.50$

$2x = y$

cocoa = 5 cups
sugar = 10 cups
powdered milk = 5 cups

HW - REVIEW Ch. 3
P164 #1, 2, 3, 5, 6,
8-10, 28, 29
Workbook P 21
p 841 38, 41