# Algebra II - Review Chapter 3 <br> Copy these Test Topics - TEST BLOCK DAY When you finish, get a whiteboard, marker and eraser. 

Solving Systems by:

- Graphing
- Substitution
- Elimination

Graphing Linear and Absolute Value Inequalities
Solving Word Problems using Systems with 2 variables
Calculator Part 2 -Finding the intersection using 2nd Trace (Calc)
Linear Programming

Calculator is OK

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 tiy mere sold to students? to non-stud


Jul 29-4:58 PM

Set up a system to solve the word problem.


On November 4th, against Conifer HS, Rob Beldock scored a total of 15 points, making a total of 9 shots. He scored all his points on 2-point and 3-point shots. How many of each type of shot did he make?


Solve using substitution.
$x-5 y=12$
$-x+5 y=-4$


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Sep 20-10:54 AM


HW - REVIEW Ch. 3

pg. 138 \#1-10 (skip 7) \& pg. 145 \#1-3 and WB pg. 28 (yes, you get a decimal!) OPTIONAL Review Quizizz and extra practice linked in the calendar

# More practice if necessary 

## FOR EXTRA PRACTICE LINEAR PROGRAMMING

Please get your homework and get started on this linear programming
The profit on each set of cassettes that is manufactured by MusicMan, Inc. is $\$ 8$. the profit on a single cassette is $\$ 2$. Machines $A$ and $B$ are used to produce both types of cassettes. Each set takes nine minutes on Machine A and three minutes on Machine B. Each single takes one minute on Machine A and one minute on Machine B. If Machine A can run for no more than 54 minutes and Machine $B$ can run for no more than 42 minutes, determine the combination of cassettes that can be manufactured during the time period that most effectively generates profit within the given constraints.

|  |  |  | total/limits | Inequality/ <br> constraints |
| :--- | :--- | :--- | :--- | :--- |
| \# of (what is <br> being produced) |  |  |  |  |
| limitation <br> $\# 1$ |  |  |  |  |
| limitation <br> \#2 |  |  |  |  |
| objective <br> function |  |  |  |  |



Sep 27-10:09 AM

Please get your homework and get started on your Do Now
The profit on each set of cassettes that is manufactured by MusicMan, Inc. is $\$ 8$. the profit on a single cassette is $\$ 2$. Machines $A$ and $B$ are used to produce both types of cassettes. Each set takes nine minutes on Machine A and three minutes on Machine B. Each single takes one minute on Machine A and one minute on Machine B. If Machine A can run for for no more than 54 minutes and Machine B can run for no more than 42 minutes, determine the combination of cassettes that can be manufactured during the time period that most effectively generates profit within the given constraints.

|  | Set of <br> Cassettes | Single <br> Cassette | total/limits | Inequalityl <br> constraints |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| \# of (whatis <br> being rroduced) | X | Y |  |  |  |
| Machine A | 9 | 1 | 54 | $9 x+y \leq 54$ |  |
| Machine B | 3 | 1 | 42 | $3 x+y \leq 42$ |  |
| objective <br> function | $\$ 8$ | $\$ 2$ | $P=8 x+2 y$ |  |  |


| $x$ | $y$ | $P=8 x+2 y$ |
| :--- | :---: | :--- |
| 0 | 0 | 0 |
| 0 | 42 | 84 |
| 6 | 0 | 48 |
| 2 | 36 | 88 MAX |



Median Price of Homes (in thousands of \$) for 1995-2000

| Years after <br> 1990 | 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 |

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

