

$$487 \quad \chi - 3(y+2) = 6$$

$$-3(y+2) = 6 - x$$

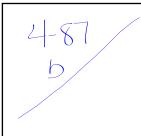
$$-3y - 6 = 6 - x$$

$$-3y = 12 - x$$

$$y = \frac{12}{-3} - \frac{x}{3}$$

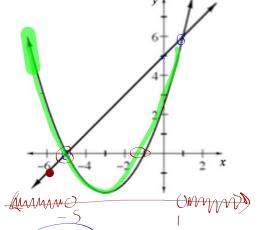
$$y = \frac{12 - x}{3}$$

$$y = -4 + \frac{x}{3}$$



- a) The equation of the parabola is: $y = \frac{1}{2}(x+3)^2 2$
- b) Determine the equation of the line: $y = \chi + 5$
- c. Use your graph to solve $x+5=\frac{1}{2}(x+3)^2-2$.





d. Use your graph to solve the system:

$$y = \frac{1}{2}(x+3)^2 - 2 \quad \text{min} \quad (1,6)$$

$$y = x+5$$





e. Use your graph to solve the inequality $x+5 < \frac{1}{2}(x+3)^2 - 2$.

(m) X<-5 OR X7 |

f. Use your graph to solve $\frac{1}{2}(x+3)^2 - 2 = 0$.

Where does the x = -5Parabola touch
the x-axis

I will not be available before or after school tomorrow.

I will be available before school on Thursday Starting at 7:15 am.

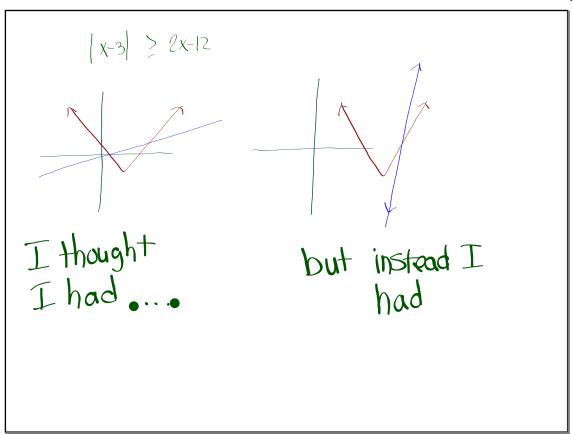
[I'll also be available
after school Thurs]

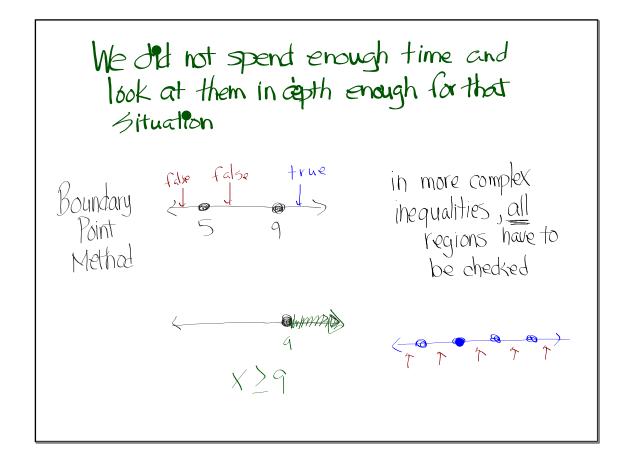
The faulty LCQ

Originally Question 3 was going to be about solving an absolute value equation

$$|X-3| = 2X-12$$
 $|X-5| \ge 2x-7$

then I decided to change it to solving an inequality but I forgot to check out the solution first

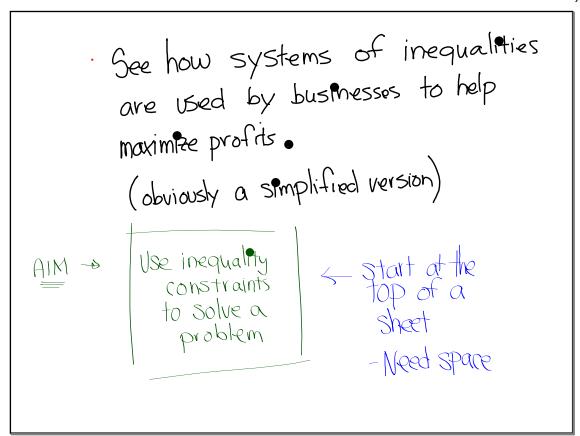


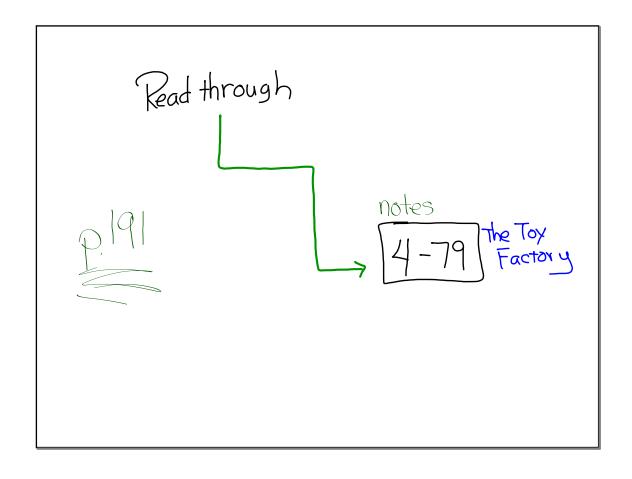


then there is a misunderstanding about "solutions"

$$6n^{2} + n = 3n^{2} + 7n$$

 $6(3)^{2} + 3 = 3(3)^{2} + 7(3)$
 $57 = 48$
false
 $50 = 3.95 \text{ not}$
a solution
 $n \neq 3.9$



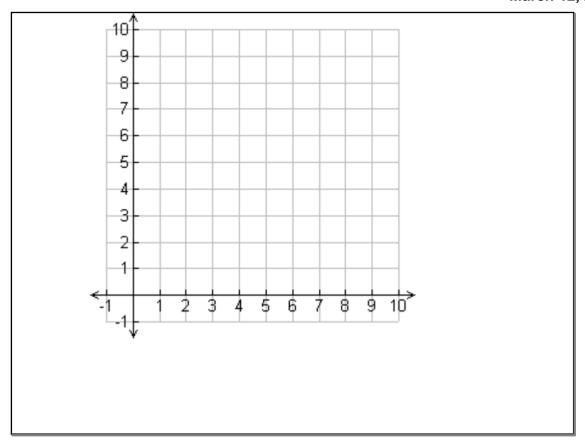


Make a list of ALL possible outcomes

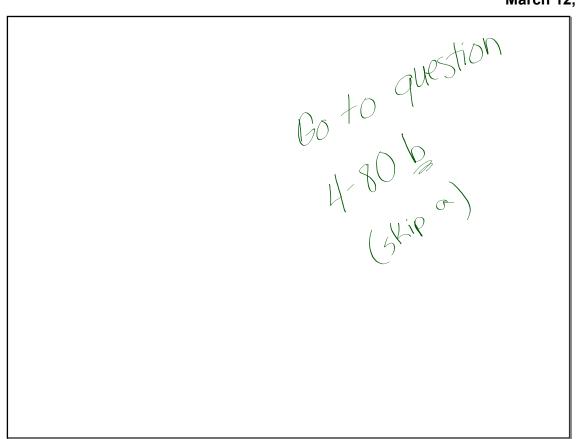
Is it possible to make

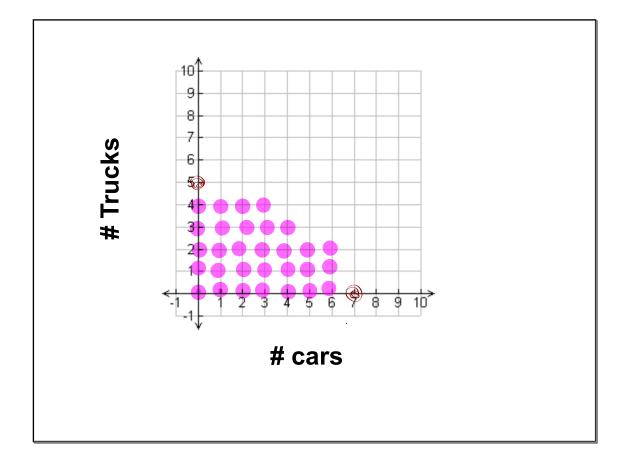
5 trucks and I car?

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There is no obvious choice for the dependent and independent variable. The decision is arbitrary.





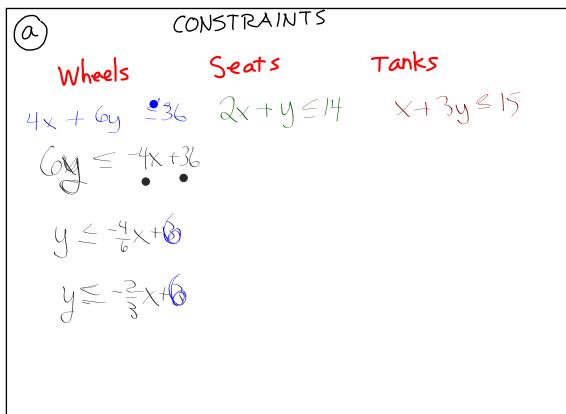
The market has changed, and Otto can now make \$2 for each truck but only \$1 for each car. What is his best choice for the number of cars and the number of trucks to make in this situation? How can you be sure? Explain.

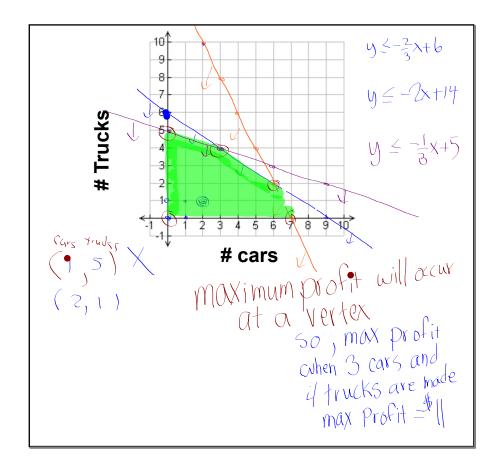
$$\frac{\text{Profit}}{1(3) + 2(4)} = 11$$

$$\frac{1(3) + 2(4)}{1(7) + 2(0)} = 7$$

Sugaret soll

Move to 4-81 a and b





4.... 83, 85,95, 97