

geomath (Finals)

# LINEAR PROGRAMMING

- output is proportional to input
- Linear equation: algebraic equation in which terms are constant or the product of a constant and a single variable - no exponents - they can't be constant

single variable (first power)

$x^1$  - linear

$x^2$  - quadratic

Represented by -  $ax + by = c$  ( $a, b, c$  - constant) ( $x, y$  - unknown)

System of linear equation:

- Linear equation (one or 2 variable)

• A system of linear equation is the common point (ordered pair)

- $a, b \neq 0$  (coeff. not be equal to 0, same label)

↳ standard equation ( $ax + by = c$ )

$$\text{ex: } ax + by = c$$

$$2x + 3y = 5$$

$$0 + 0 = 5$$

$$0 \neq 5$$

- (puede ka sekula) ex:  $ax + by = c$

$$2x + 4y = 5$$

$$0 + 2y = 5$$

$$2y = 5 \Rightarrow$$

- $L_1$  = first linear

$L_2$  = second linear

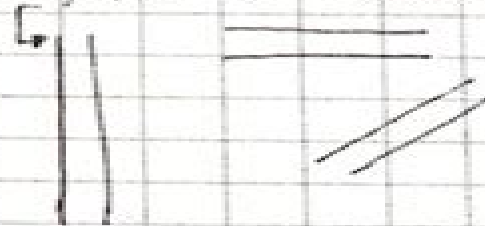
Types of system of linear equation:

a. Inconsistent, consistent & dependent

Inconsistent

- solution is empty set
- consist of 2 parallel lines
- determined using ratio test

graph: (no solution)



# Linear Programming Lecture Notes

**M. R. Osborne**



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