

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 ($ax + by = c$)

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

$$2x + 3y = 5$$

$$0 + 0 = 5$$

$$0 \neq 5$$

- (procedurakan sekiranya) ex: $ax + by = c$

$$2x + 3y = 5$$

$$0 + 2y = 5$$

$$2y = 5$$

- 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

G Psacharopoulos



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