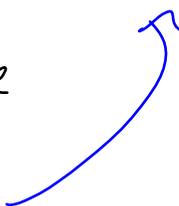


Phrase "such that"

- Correct: definition such that condition
on
defined object

def.

- Ex: Let P be the set of all x such that

x is prime
conditions  modifies

- Ex: Let $x(t)$ be the unique function
such that x is a soln. to

$$\frac{dx}{dt} + 3x = 7 \quad \text{and} \quad x(0) = 1$$

- Non ex: Let $k = p_1 p_2 \dots p_n + 1$ such that

$$\underline{p} \mid k$$

does not modify
def of k

- Improvement. Let $k = p_1 p_2 \dots p_n + 1$. Note that $p_i \nmid k$ (or) Let p be the smallest prime factor of k .