Lecture 11/15/23: Combining Functions

Tips for word problems

- 1) Identify units of input and output of function given or Yunction you have to make
- 2) If You are told to unte a function ALWAYS unte down the general from of the type of function you are asked to make.
 - 3) Plug in ALL given information, and #MA THINK about what you are being instructed to do.
 - 4) Make sure to check if your final answer makes senil.

#3 (1)
$$p(x) = 7+x$$

 $k(x) = 600 - 50x$

Perdag

- b) P(x) k(x) is the amount of m revenue after increasing by x dollars.
- C) P(X)K(X) = (7+x)(600-50x) = SO(7+x)(12-x) Can find XAN(= 95 maxim using vertex form)

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$$P_{s}(t) = \frac{S(t)}{S(t) + H(t)} \times 100$$

$$P_{H}(t) = \frac{H(t)}{S(t) + H(t)} \times 100$$

$$P_{S}(t) + P_{H}(t) = 100$$