WORKSHOP 2.5

 $\operatorname{Problem}$

Question: The model

$$P(x) = \frac{35x}{(1+x)^5}$$

describes the population of a particular species the generation following a generation of population x. (The units of P and x are in millions.) Sketch the graph of P(x), indicating local extrema and inflection points. According to your graph, is there a sustainable population?