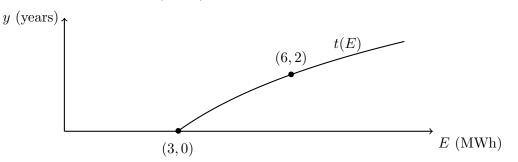
4. [7 points] Mad scientist Kiki LeBlanc is analyzing the amount of energy she needs to run another one of her time machines named Machine1. Below is a graph of y = t(E), the number of years into the past or future she can send a 1 kg notebook when the energy consumption of Machine1 is E megawatt-hours (MWh).



a. [4 points] The function t(E) (assuming the domain is $E \ge 3$) can be written in the form $t(E) = a \log(E) + b$ for some constants a and b. Given the information in the graph, find a and b in **exact** form.



b. [3 points] Give a practical interpretation of the point (6, 2) on the graph.