

You're running a science experiment to see how long it takes a piece of pizza to grow moldy. On the morning of your experiment, you place the pizza in a petri dish with 1 gram of mold at initial time $t=0$, and the amount of mold increases by a factor of 3 each hour. Determine the hour when there will be 50 grams of mold more precisely by using a guess-and-check method.

