

Alg2 Homework, due Tuesday, Jan 23

Loggerhead turtles reproduce every 2–4 years, laying approximately 120 eggs in a clutch. Using this information, we can derive an approximate equation to model the turtle population. As is often the case in biological studies, we will count only the female turtles. If we start with a population of one female turtle in a protected area, and assume that all turtles survive, we can roughly approximate the population of female turtles by $T(t) = 5^t$. Use the methods of the Example to find the number of years, Y , it will take for this model to predict that there will be 300 female turtles.