

FRQ#2: Modeling a Non-Periodic Context

What can I expect?	What should I know and be able to do?
<ul style="list-style-type: none">Graphing calculator allowedVerbal description of a real-world scenarioGeneral form of the function is given with 2, 3, or 4 parametersFunction types<ul style="list-style-type: none">○○○○ <p>(A) i) Write system of equations ii) Solve for the parameters</p> <p>(B) i) _____ AROC ii) _____ AROC iii) _____ AROC</p> <p>(C) Assumptions or limitations of the model</p>	<ul style="list-style-type: none">Use known input-output pairs to write _____ that can be used to solve for the parameters.Solve a system of equations using _____ or _____.Calculate AROCInterpret AROC "The _____ is _____ increasing/decreasing at a rate of _____, on average between $x = \underline{\hspace{1cm}}$ and $x = \underline{\hspace{1cm}}$."Concavity<ul style="list-style-type: none">○ Concave up →○ Concave down →Basic _____ of polynomial, exponential, and logarithmic functions.

AP Exam Tips: