

Commonly Seen Free Response Questions on the AP Calculus Exam

Table	Graph Analysis	Rate/accumulation
<ul style="list-style-type: none"> ❖ Only _____ values of a function are given • Approximate and interpret a derivative or integral • Use a theorem 	<ul style="list-style-type: none"> ❖ The given graph usually represents the _____ of the function being asked about! • Justify graph features • Area under the curve 	<ul style="list-style-type: none"> • Rate in/rate out ❖ Calculator tip: ❖ Use _____ & _____!
Particle Motion	Differential Equation	Miscellaneous
<ul style="list-style-type: none"> • Relationship between _____, _____, and _____. • Justifications • Net distance vs. total distance 	<ul style="list-style-type: none"> • Slope field • Tangent line approximation • Solving a differential equation with an initial condition 	<ul style="list-style-type: none"> • Area/volume • Implicit differentiation • Function mash-up