**Formulas or situations requiring formulas:**

* Limit definition of derivative
* “Average rate of change” – like finding “average velocity” given **position** or “average acceleration” given **velocity**
* “Average value” – different from average rate. This would be finding average velocity given velocity, avg temp given temp, average acceleration given acceleration, etc.
* Mean Value Theorem
* Fundamental Theorem of Calculus – including how to find f(b) given f(a) and its applications – finding new position, etc.
* Total distance
* Displacement
* Arc length
* Area
* Volumes – disk and washers and around lines other than axes; Cross-sections
* Trapezoidal Rule
* LRAM, RRAM, MRAM
* Logistic – finding M and pop. when max rate