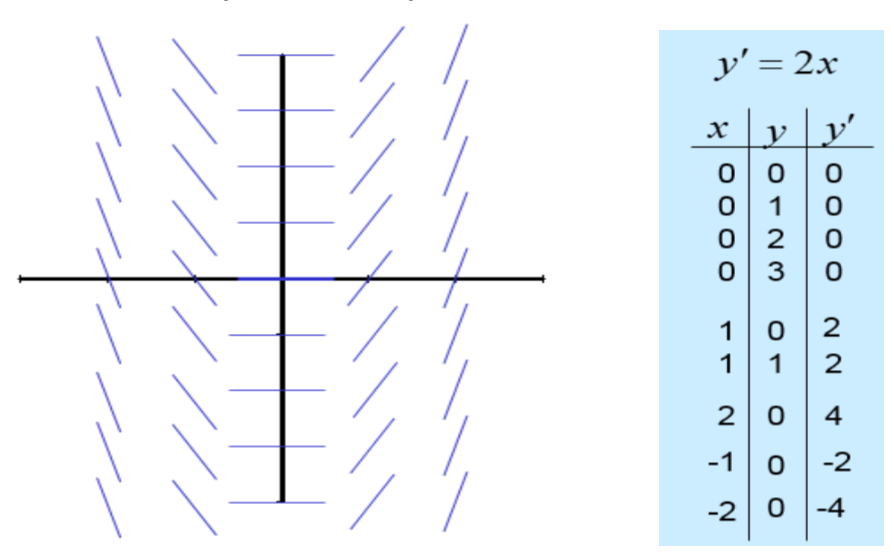
Mr. Visca – AP Calculus AB

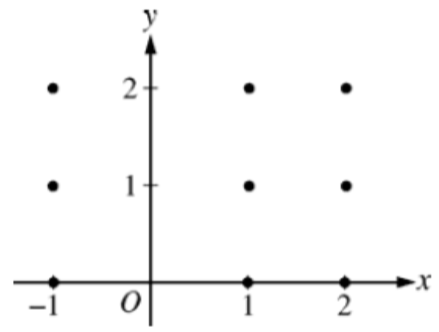
Unit 6: Diff EQ and Math Modeling Review Notes

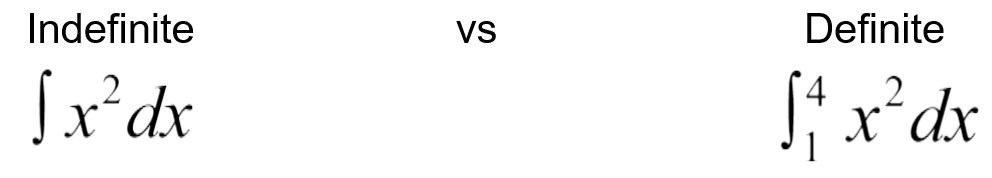
**Slope Fields:**

Here's what the slope field of y' = 2x looks like



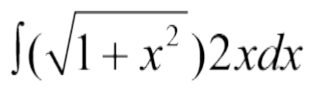
Draw a slope field for: dy/dx = 3x + y

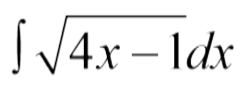
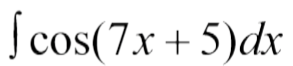


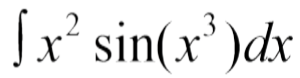
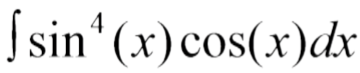
**To "C" or not to "C"!**

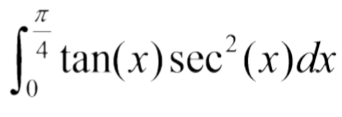
**More Integrate by U-Sub**

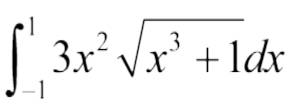




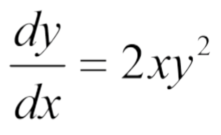


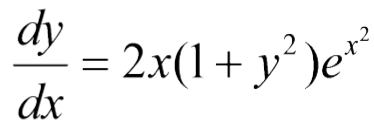


**Definite Integral with U-sub…now with bounds!**



**Separable Differential Equations**

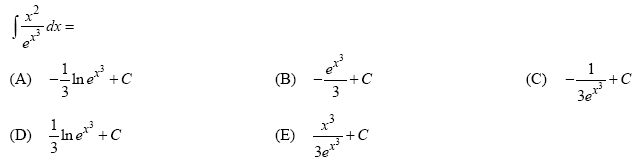




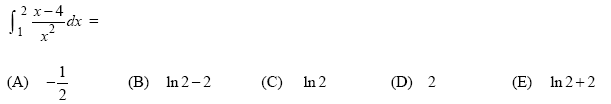
**Unit 6 Review Problems (there is no #8)**

Show all your work!

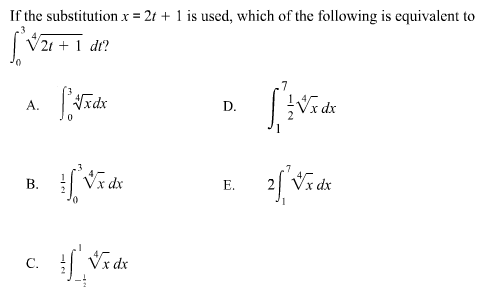
1.  *dx* =

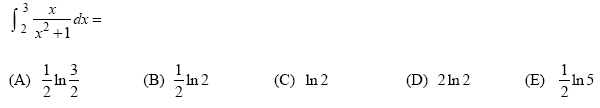


2.

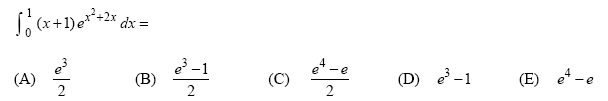


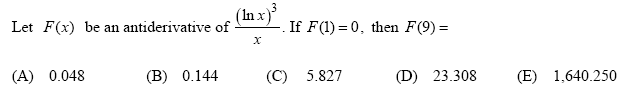
3.

4.

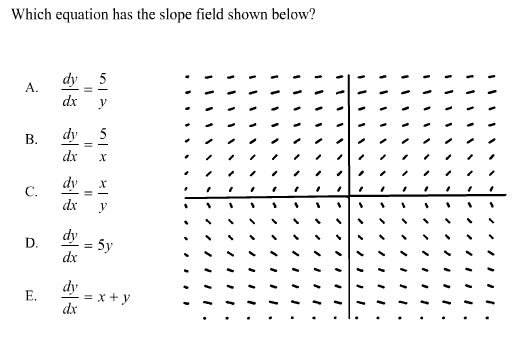


5.

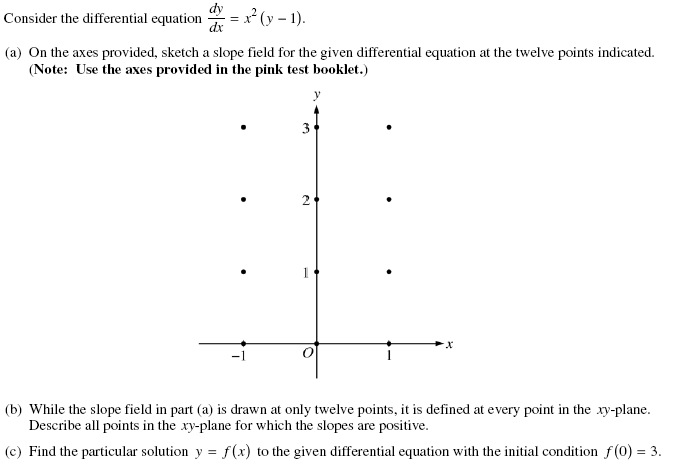
6.



7.

9.

(#10 continued on next page)

10.