AP Calculus AB
Chapter 2A Syllabus*

Day	Date	Sections	Description	Homework
1		2.1	Definition of a Derivative	• Pg. 131: (17, 21, 29, 45-48, 61, 67, 69, 79, 88, 89 • SET A (see below)
2		2.2	Basic Differentiation Rules	• Pg. 131-133: (33, 43, 83, 90) • Pg. 143-146: (3-51 eoo, 55a, 57a, 63, 64, 65, 69, 71, 110)
3		2.3	Quiz: 2.1 & 2.2 Product and Quotient Rules	• Pg. 154: (5, 11, 27, 29a, 35, 45, 47, 51, 67, 73a, 75a, 79, 87, 97, 107, 109-112, 138, 139, 141)
4				• FR 1 – 5, 16, 18
5		2.4	Chain Rule – *polynomials, rationals, trigonometry*	• Pg. 168: (7-27 odd, 47-67eoo, 117-121 odd, 129, 159-163) • FR 15
6		2.4	Chain Rule – *exponentials, logarithms*	• Pg. 168: (43, 45, 71, 75, 81, 87, 89, 91, 99, 141, 145, 151, 153, 191-193) • FR 12
7			Quiz: 2.3 & 2.4 Ch 2A Review	• Ch 2A Review WKST • FR 6, 11, 17
8			Review	
9			Ch 2a Test	

* eoo – "Every Other Odd"
* Syllabus subject to change
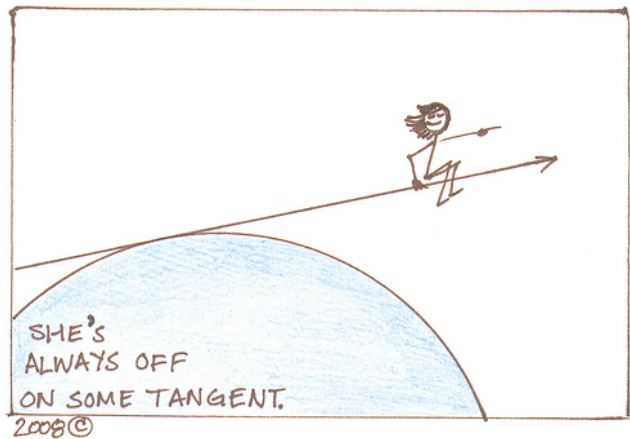*Odd Answers can be found at: www.CalcChat.com

Set A

What does each expression mean?

a) $\lim\limits_{h \to 0} \dfrac{f(7+h) - f(7)}{h} = -1$

b) $\lim\limits_{x \to 3} \dfrac{f(x) - f(3)}{x-3} = 0$

c) $f'(5) = 6$

SHE'S ALWAYS OFF ON SOME TANGENT. 2008©

Set A Answers:

a) The tangent line to the function f(x) at the point x=7 has a slope of -1.
   OR
   The slope of f(x) at the point x=7 is -1.

b) The tangent line to the function f(x) at the point x=3 has a slope of 0.
   OR
   The slope of f(x) at the point x=3 is 0.

c) The tangent line to the function f(x) at the point x=5 has a slope of 6.
   OR
   The slope of f(x) at the point x=5 is 6.