

AP Calculus AB

Chapter 2A Syllabus 2019-2020*

Day	Date	Sections	Description	Homework
1		2.1	Definition of a Derivative	<ul style="list-style-type: none"> Pg. 131: (17, 21, 29, 45-48, 61, 67, 69, 79, 88, 89) SET A (see below)
2		2.2	Basic Differentiation Rules	<ul style="list-style-type: none"> Pg. 131: (33, 43, 90) Pg. 143: (3-51 eoo, 55a, 57a, 63, 64, 65, 69, 71)
3		2.2	Quiz: 2.1 & 2.2 FR (1, 4, 16)	<ul style="list-style-type: none"> Pg. 133 (83) Pg. 146: (110, 111) FR 2, 3
4		2.3	Product and Quotient Rules FR 5, 18	<ul style="list-style-type: none"> Pg. 154: (5, 11, 15, 19, 31, 43, 45, 47, 52, 53, 67, 73a, 75a, 79, 87, 97, 107, 109, 111, 138, 139, 141)
5		2.4	Chain Rule – <i>polynomials, rationals, trigonometry</i> FR 15	<ul style="list-style-type: none"> Pg. 168: (7-27 odd, 47-63 eoo, 117a-121a odd, 129, 159-163 odd)
6		2.4	Chain Rule – <i>exponentials, logarithms</i> FR 12	<ul style="list-style-type: none"> Pg. 168: (43, 45, 71, 75, 81, 87, 89, 91, 99, 141, 145, 151, 191, 192)
7			Quiz: 2.3 & 2.4 Ch 2A Review	<ul style="list-style-type: none"> Ch 2A Review WKST FR 6, 11, 17
8		2.6	Ch 2a Review Derivatives of Inverse Trig Functions	<ul style="list-style-type: none"> ***Pg. 186: (23-27 odd, 41, 51, 53, 54, 57, 81, 82, 83) Ch 2A Review WKST FR 6, 11, 17
9			Ch 2a Test	

* eoo – "Every Other Odd"

* Syllabus subject to change

*Odd Answers can be found at: www.CalcChat.com

***2.6 is NOT on the ch 2a test

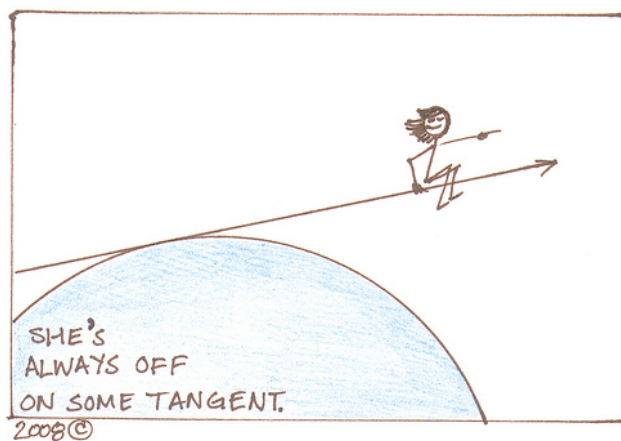
Set A

What does each expression mean?

a) $\lim_{h \rightarrow 0} \frac{f(7+h) - f(7)}{h} = -1$

b) $\lim_{x \rightarrow 3} \frac{f(x) - f(3)}{x - 3} = 0$

c) $f'(5) = 6$



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 .