

Pre-Calc Practice Problems

Set #1			Test #/Date
	Pg 89 #51-54 57-59	..... .....	Graphing Piecewise Functions finding continuous functions
Set #2			
	Pg 74 #1-6, 17-27 (odd) 49-53	..... .....	finding limits numerically sketching functions
	Pg 89 #63, 65	.....	sketching function
Set #3			
	Pg 80 #1-23 (odd) 26-30	..... .....	finding limits algebraically basic limit laws
Set #4			
	Pg 89 #67-80	.....	finding limits algebraically
	Pg 94 #5-25(odd) 45-54	..... .....	vertical asymptotes finding limits in terms of a
Set #5			
	Pg 105 #1-4, 7-27 (odd)	.....	horizontal asymptotes
Set #6			
	Pg 109 #1-5 21-24	..... .....	Intermediate Value Theorem sketching graphs

Pre-Calc Practice Problems

Set #7

Pg 125 #3, 5 (only use EQ 1),
19, 20, 27, 29, 31, 33,
35, 51 – 56 (all)

.....

definition of the derivative

Set #8

Pg 139 #7 – 17, 21 – 27,
33 – 39 (all odd)

.....

power rule

Set #9

Pg 147 #1, 2, 5, 7 – 10,
17 – 29 (odd), 39 – 42

.....

product and quotient rules

Set #10

Pg 156 #1 – 11

.....

rates of change

Set #11

Pg 163 #1 – 13 (odd),
17 – 21 (odd), 28, 31, 32, 33

.....

higher order derivatives

Pre-Calc Practice Problems

Set #12

Test #/Date

(Be sure to include a reason for all graphs.)

Pg 126 #11, 12, 13,

Pg 139 #43, 44, 50 – 53, 66

Pg 163 #38, 39, 40

graphs of derivatives and
finding horizontal tangent lines

Set #13

Pg 167 #1 – 8, 13 – 20,

25, 27, 29, 43, 44

derivatives of trig functions

Set #14

Pg 175 #1 – 4, 11 – 20 (use the chain rule),

29, 30, 35 – 38,

45 – 61 (multiples of 3),

86 – 90

chain rule practice

Set #15

Pg 181 #19 – 35

(skip #28, 29 and multiples of 3)

derivatives of inverse trig
functions

Set #16

Pg 187 #1– 19 (odds),

26 – 31

derivatives of logs and
exponential functions

Set #17

Pg 192 #9 – 25 (odd),

29 – 37 (odd)

implicit differentiation

Set #18

Pg 199 #1, 2, 3, 5 – 8, 9,

11, 13, 16, 17, 21, 25

related rates

Set #19

Higher Order Implicit

Differentiation Worksheet

implicit differentiation

Pre-Calc Practice Problems

Set #20

Test #/Date

Pg 222

#3 – 9 (odd – no calculator)

#11 – 19 (odd – calculator ok)

#30 – 58 (EOE)

critical points

Set #21

Pg 232 #19 – 52 (do two, skip three)

(after #31 you may use a
calculator to solve for your
critical points)

first derivative test for
extrema

Set #22

Pg 238 #25 – 38

(skip multiples of 3)

second derivative test for
extrema

Set #23

Pg 238 #1, 3 – 18

(multiples of 3), 20 – 23

second derivative test for
concavity

Set #24

Pg 238 #39, 42, 46, 51,

54 – 56

curve analysis

Set #25

Pg 232 #1 – 8

(calculator ok), 11 – 18

Mean Value Theorem
