

Math 15 – Calculus I**Suggested Problems From Text**Text: Calculus, by Larson & Hostetler, 6th edition

Section	Exercises
1.5 - Functions	1bd,3d,7,17,21,23,25,29,31,39,41ae,47,49,51,53,63,65
2.1 – Limits	1,3,7,9,11,25,27c,34,35
2.2 – Evaluating Limits	1,3,5,9,17,19,21,27,29,31,36,43,45
2.4 – Infinite Limits, Asympt	1,3,5,7,11,15,17,19,21,23,25,27,29,31
2.3 – Continuity	1,5,9,11,13,15,17,19,35,43,47
3.1 – Derivatives,Slopes,Tan	1,3,5,7,9,11,15,19,21,25,30,32
3.3 – Diff Rules, Powers	1,9,17,23,25,29,37,39,43,45,53
3.2 – Velocity & Accel	1,3,5,7,15,19,21
3.4 – Prod & Quot Rules	1,3,5,7,9,13,19,25,27,31,39,41
3.5 – Chain Rule	1,3,7,11,15,17,29,31,33,45,47
3.6 – Implicit Differ	1,3,7,11,15,23,31,33,*39
3.7 – Related Rates	1,5,7,9,11,13,15,17,21,23,*19
4.1 – Extrema on Interval	1,3,7,9,11,13,15,17,19
4.2 – Mean Value Theorem	13, 17
4.3 – Inc & Dec Func, 1 st derivative test	3,5,7,11,13,15
4.4 – Concavity, 2 nd derivative test	7,9,11,15,17,19,21,25,29,33
4.5 – Limits at Infinity (end behavior)	1,3,7,9,11,13,15,19,29
4.6 – Curve Sketching	1,3,9,11,19,23,25,29,35
4.7 – Optimization	3,5,7,9,11,13,15,17,23,29,41
4.8 – Newton’s Method	1,5,11
4.9 – Differentials	1,17,19,23
8.1 – Review of Trig Func	3,5,7,13,18,24,31,37
8.2 – Graphs & Limits of Trig Functions	1,33,35,37,41; p. 446 #55
8.3 – Deriv of Trig Func	1,7,9,17,31,35,45,47
5.1 – Antiderivatives	1,3,4,5,9,17,19,21,25
5.3 & 5.4 – Area and the Definite Integral; Fundamental Theorem	5.3/ 5,9,11,15 5.4/ 5,7,15,29
5.5 – Integration by Sub	9,11,13,15,19,29,31,33,39