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| **Unit 8 (Limits)** | **Precalculus with Limits** |

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| **Main Topic/Book Section** | **Objectives** | **Assignments** |
| **2.1 Limits (the basics)** | * Determine limits by examining a graph. * Evaluate limits by examining a table of values. * Evaluate one-sided limits. | 1) p. 111-112 #’s 2,4,6, 13-16, 21, 22 |
| **2.2 Evaluating Limits Analytically** | * Use properties of limits * Evaluate limits with substitution * Determine if a limit is infinite (vertical asymptotes) * Factor/Cancel to evaluate a limit (hole) * Rationalize numerators to evaluate a limit * Evaluate limits of piecewise-defined functions | 2) p. 121-122 #’s 1-8  3) p. 121-122#’s 8-30 (even), 31, 32, 34  4) Problem Set |
| **QUIZ** |  |  |
| **2.3 Limits Involving infinity** | * Evaluate limits as x approaches positive or negative infinity | 5) p. 131 #’s 2,4,6, 7-18  6) p. 131-132 #’s 19-28, 31, 51-53 |
| **2.6 Limits Involving Trig** | * Prove a limit theorem about sin(x) * Evaluate limits involving trigonometric functions | 7) p. 160-161 #’s 17-38  8) Problem Set |
| **Review**  **TEST** | | |