

Math 115 MWF	Math 115 Enhanced MTWRF
<p data-bbox="235 254 503 289"><i>Monday, Section 4.3</i></p> <p data-bbox="235 327 730 472">Introduce the concept of vertical and horizontal asymptotes from calculus perspective and relate it to Precalculus background.</p> <p data-bbox="235 510 792 579">Problems 1: Find asymptotes for a rational function.</p> <p data-bbox="235 617 649 686">Review how to sketch functions incorporating asymptotes.</p> <p data-bbox="235 724 781 760">Problem 2: Sketch a polynomial function.</p> <p data-bbox="235 798 734 833">Problem 3: Sketch a rational function.</p> <p data-bbox="235 871 678 947">HW for Wednesday: 4.3: #2, 4, 8, 10, 16, 24, 28, 30, 38</p>	<p data-bbox="823 254 1091 289"><i>Monday, Section 4.3</i></p> <p data-bbox="823 327 1318 472">Introduce the concept of vertical and horizontal asymptotes from calculus perspective and relate it to Precalculus background.</p> <p data-bbox="823 510 1380 579">Problems 1: Find asymptotes for a rational function.</p> <p data-bbox="823 617 1237 686">Review how to sketch functions incorporating asymptotes.</p> <p data-bbox="823 724 1369 760">Problem 2: Sketch a polynomial function.</p> <p data-bbox="823 798 1321 833">Problem 3: Sketch a rational function.</p> <p data-bbox="823 871 1266 947">HW for Wednesday: 4.3: #2, 4, 8, 10, 16, 24, 28, 30, 38</p> <p data-bbox="823 984 1091 1020"><i>Tuesday, Section 4.3</i></p> <p data-bbox="823 1058 1385 1165">Problem 4: Sketch a given rational function with two vertical asymptotes and a horizontal asymptote.</p> <p data-bbox="823 1203 1365 1381">Problem 5: Sketch a function without explicitly knowing $f(x)$, just using information about the intercepts, key points, definitions of asymptotes, and sign charts for the first and second derivative.</p> <p data-bbox="823 1419 1369 1640">Group Work 6: Have the class work in groups of three and sketch a function without explicitly knowing $f(x)$, just using information about the intercepts, key points, definitions of asymptotes, and sign charts for the first and second derivative.</p> <p data-bbox="823 1677 1195 1753">HW for Wednesday: 4.3: 48,54,56,58,62,64,67,70</p> <p data-bbox="823 1791 1284 1827">Group Study after class for 1 hour.</p>

<p><i>Wednesday, Section 4.3</i></p> <p>Review the concepts introduced on Monday.</p> <p>Problem 4: Sketch a given rational function with two vertical asymptotes and a horizontal asymptote.</p> <p>Problem 5: Sketch a function without explicitly knowing $f(x)$, just using information about the intercepts, key points, definitions of asymptotes, and sign charts for the first and second derivative.</p> <p>HW for Friday: 4.3: 48,54,58,62,64,67,70</p>	<p><i>Wednesday, Section 4.4</i></p> <p>Introduce the concepts of absolute extreme. Examine graphs and determine absolute extrema.</p> <p>Discuss when we have absolute extrema on a closed domain and how to find these values.</p> <p>Problem 7: Find absolute extrema for a continuous polynomial on a closed domain with at least one critical point outside the domain.</p> <p>Problem 8: Find absolute extrema for a function with an open domain.</p> <p>Group work 9: Have students find absolute extrema for a rational function that is continuous on a specified closed domain.</p> <p>HW for Thursday: 4.4: #4,6,8,10,12,14,16,26,29</p> <p>Group Study after class for 1 hour.</p> <p><i>Thursday, Section 4.4</i></p> <p>Problem 10 & 11: Two applications and word problems on finding absolute extrema.</p> <p>Group work 12 & 13: Two application problems to find absolute extrema.</p> <p>HW for Friday: Chapter 4 Review: #2,3,4,10,16,22 Study for Friday's quiz on curve sketching.</p> <p>Group Study after class for 1 hour.</p>