

Unit	Essential Questions	Standards & Skills	Common Assessments	Learning Activities	Resources/Technology	Unit Reflection
<b>Name:</b> Rational Equations and Functions <b>Quarter:</b> 4 <b>Length (Days):</b>	1. Write and use inverse variation models. 2. Write and use joint variation models. 3. Write and use direct variation models. 4. Graph rational functions that are hyperbolas. 5. Graph general rational functions. 6. Multiply and divide rational functions. 7. Add and subtract rational expressions. 8. Simplify complex fractions. 9. Solve rational equations.	<b>CCSS:</b> F-IF.1 F-IF.2 F-IF.4 F-IF.5 F-LE.1.c A-SSE.2 A-SSE.3.a A-APR.2 A-APR.3 A-APR.4 A-APR.6 A-APR.7 F-BF.1.c F-BF.4.a F-BF.4.b F-BF.4.c F-BF.5 <b>MP1</b> <b>MP2</b> <b>MP3</b> <b>MP4</b> <b>MP5</b> <b>MP6</b> <b>MP7</b> <b>MP8</b>	<b>Formative:</b> <b>Homework:</b> pp. 537, 538; 5-47 odds pp. 543, 544; 11-39 odds pp. 543, 544; 12-40 evens pp. 551; 27-37 odds pp. 551; 26-38 evens pp. 558, 559; 17-45 eoo p. 566; 27-45 odds p. 566; 26-44 evens pp. 571, 572; 21-49 eoo pp. 571, 572; 23-47 eoo Chapter 9 Review Packet  <b>Summative:</b> Chapter 9 Test	Group work, Lecture, Teach-model-try, individual instruction as needed	Star Board, graphing calculators, Geometer's Sketchpad Software, note outlines, text book, and related handouts	This unit is an excellent review of past lessons and a good introduction to conic sections.
<b>Name:</b> Quadratic Relations and Conic Sections <b>Quarter:</b> 4 <b>Length (Days):</b>	1. Use the distance formula to find the distance between two points. 2. Use the midpoint formula to find the midpoint between two points. 3. Graph and write equations of parabolas. 4. Graph and write equations of circles. 5. Graph and write equations of ellipses.	<b>CCSS:</b> A-REI.5 A-REI.6 A-REI.7 A-REI.10 F-IF.5 F-IF.7.a F-IF.7.c F-IF.7.d G-GPE.2 G-GPE.3 F-BF.3 <b>MP1</b> <b>MP2</b>	<b>Formative:</b> <b>Homework:</b> pp. 592, 593; 1-49 eoo pp. 592, 593; 3-47 eoo pp. 598, 599; 23-75 eoo pp. 598, 599; 25-77 eoo p. 605, 27-75 eoo p. 605, 29-77 eoo p. 613, 31-67 eoo p. 613, 33-65 eoo p. 619, 21-61 eoo p. 619, 23-63 eoo pp. 628, 629; 13-61 eoo pp. 628, 629; 15-59 eoo	Group work, Lecture, Teach-model-try, individual instruction as needed	Star Board, graphing calculators, Geometer's Sketchpad Software, note outlines, text book, and related handouts	This unit requires students to take their algebra skills and apply them to graphs and geometric figures.

	<p>6. Graph and write equations of hyperbolas.</p> <p>7. Write and graph the equations of conic sections that do not have their centers at the origin.</p> <p>8. Solve systems of quadratic equations.</p>	<p><b>MP3</b></p> <p><b>MP4</b></p> <p><b>MP5</b></p> <p><b>MP6</b></p> <p><b>MP7</b></p> <p><b>MP8</b></p>	<p>pp. 628, 629; 14-62 eoe</p> <p>pp. 828, 629; 16-60 eoe</p> <p>pp. 635, 636; 15-51 eoo</p> <p>pp. 635, 636; 17-49 eoo</p> <p>pp. 635, 636; 16-48 eoe</p> <p><b>Summative:</b> Chapter 10 Test Hyperbola Alternative Assessment</p>			
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