

Mathematics – High School Algebra II

| Polynomial, Rational, and Radical Relationships | Trigonometric Functions |
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| <ul style="list-style-type: none"> Derive the formula for the sum of a geometric series, and use the formula to solve problems. (e.g., Calculate mortgage payments.) | <ul style="list-style-type: none"> Apply knowledge of trigonometric functions to determine distances in realistic situations. (e.g., Determine heights of inaccessible objects.) |
| Modeling with Functions | Inferences and Conclusions from Data |
| <ul style="list-style-type: none"> Analyze real-world situations using mathematics to understand the situation better and optimize, troubleshoot, or make an informed decision. (e.g., Estimate water and food needs in a disaster area, or use volume formulas and graphs to find an optimal size for an industrial package.) Analyze decisions and strategies using probability concepts (e.g., product testing, medical testing, pulling a hockey goalie at the end of a game). | <ul style="list-style-type: none"> Make inferences and justify conclusions from sample surveys, experiments, and observational studies. |