**Analysis of Functions**

**Learning Goals**

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| **#** | **Learning Goal** | **Standard(s)** |
| AF01 | Students will be able to solve mathematical problems using the Fundamental Theorem of Algebra and the Remainder Theorem. | A-APR.2.2, N-CN.3.9 |
| AF02 | Students will be able to write functions in equivalent forms and graph functions with and without technology. | F-IF.3.7, F-IF.3.8a |
| AF03 | Students will be able to write exponential and logarithmic functions in equivalent forms and graph with and without technology. | F-IF.3.7e, F-IF.3.8b, F-LE.1.4 |
| AF04 | Students will be able to rewrite rational expressions. | A-APR.4.6, A-APR.4.7 |
| AF05 | Students will be able to build functions that model relationships between quantities, and new functions (inverse/composite) from existing functions. | F-BF.1.1, F-BF.2.4, F-BF.2.5 |
| AF06 | Students will be able to extend the domain of trigonometric functions using the unit circle. | F-TF.1.3, F-TF.1.4 |
| AF07 | Students will be able to model periodic phenomena using trigonometric functions. | F-TF.2.5, F-TF.2.6, F-TF.2.7 |
| AF08 | Students will be able to prove and apply trigonometric identities. | F-TF.3.8 |