UAF DMS Guidelines for
MATH 156X –Precalculus

identify the max/min value

modeling with quadratics

- Polynomial Functions

    graph by finding zeros and identifying end behavior

    identify the equation from a graph

    graph a rational function by identifying intercepts and asymptotes

- Exponential and logarithmic Functions

    graph a transformed exponential/ logarithmic function

    identify the equation of a graph of an exponential function

    use laws of logarithms to evaluate, combine or expand logarithmic expressions

- Exponential and Logarithmic Equations

    Solve various types of exponential and logarithmic equations algebraically

    modeling with exponential functions

Angle Measures

Trigonometric Values

- basic angles
- coterminal angles
- for a given point

Trigonometric Graphs

- find domain and range
- find amplitude, phase shift, and period
- find intercepts and asymptotes

Solve Trigonometric Equations

- Linear trigonometric equations
- Equation involving either quadratic, factoring, or the use of identities

At least two of the following:

- Evaluate inverse trigonometric functions
- Evaluate composition of trigonometric and inverse trigonometric function (both orders)
- Domain, range, and properties of inverse trigonometric functions

Applications

- Right angle trigonometry (such as angle of elevation/depression)
- Laws ov#