Pre-Calculus Level 4 work

MT 1

1. Learner is able to discuss the domain of a function that is the square root of a polynomial of degree greater than 3

   **or** 

**OR**

1. Learner is able to design an algebraic model of a function of higher powers, using a graphing program on a calculator. Pg. 82 24-28 all

**OR**

1. Discuss symmetry as it is applied to a function. Be sure to discuss it algebraically, graphically, numerically and how it relates to even or odd functions.

MT 2

1. Learner is able to find the inverse of a function and discuss the domain of the inverse function. How is the domain of the original function related to the domain of the inverse function?

   **or** 

MT 3

Find the intercepts, asymptotes and end behavior asymptote, and graph the function together with its end behavior asymptote of the following function:



MT 4

Find the future value accumulated in an annuity after investing periodic payments R for t years at an annual interest r, with payments make and interest credited k times per year.

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