Math 3 Exam Review Topics Name_____

A. **Exponential Functions/graphs**

B. **Quadratic Functions/graphs**

Transformations

Discriminant

Parabolas/vertex/Focus point/Directrix

C. **Rational Functions/graphs**

Asymptotes

Simplify (add, subtract, multiply, divide)

D. **Trigonometry functions/graphs**

Domain/Range

E. **Polynomial Functions/graphs**

Rational and Irrational zeros

Imaginary zeros

Degree/# of roots

Imaginary/Irrational roots come in conjugate pairs

Synthetic Division

Remainder theorem

F. Logarithmic Functions/graphs

Properties

Condense/expand

Natural Logarithms

Compound Interest Formula

Continuous compounding

G. Inverse Functions/graphs

H. Linear Programming

I. Sequences

Arithmetic/Geometric

Recursive rules/ explicit rules

Sum of terms

J. Statistics

Standard deviaton

Z scores

Types of bias

K. Circles

L. Domain/Range of all functions

M. Solve Systems of equations

N. Solving Radical Equations

O. Geometry

Similar Triangles

Pythagorean Theorem

Parallelograms

Inscribed/Central and Circumscribed angles