Algebra 1 – OST Review

Name:_____ **Date:**_____ **Block:**_____

Fill-in the topics as best as you can. These ideas are important for the Ohio State Test in Geometry.

CHAPTER 1

Section 1-1

Four mathematical operations (words to math)

Section 1-5

Solving equations in one variable

Section 1-6

Solving for a variable

CHAPTER 2

Section 2-4

Multiplying/dividing an inequality by a negative

CHAPTER 3

Section 3-2

Domain	Range	Definition of a function

Section 3-3

Evaluating a function

Section 3-6

Arithmetic sequence

CHAPTER 4

Section 4-2

Interpreting x- and y-intercepts of linear equations

Section 4-4

Slope formula

Section 4-6

Slope-intercept form	Rewriting in slope-intercept form
Graphing linear equations in slope-intercept form	Writing equations of lines given the slope and a point

Section 4-8

Least-squares line	Correlation coefficient

CHAPTER 5

Section 5-2

Solving systems of linear equations by substitution

Section 5-3

Solving systems of linear equations by elimination

Section 5-6

Graphing systems of linear inequalities

CHAPTER 6

Section 6-1

Integer exponents

Section 6-2

Rational exponents

Section 6-4

Adding/subtracting polynomials

Section 6-5

Multiplying polynomials

CHAPTER 7

Section 7-3

Factoring $x^2 + bx + c$

Section 7-4

Factoring $ax^2 + bx + c$

Section 7-5

Difference of two squares

CHAPTER 8

Section 8-1

Minimum/maximum values	Zero of a function

Section 8-2

Finding the vertex of a parabola

Section 8-3

Graphs of quadratic functions

Section 8-4

Transformations of quadratic functions (a and c values)

Section 8-6

Solving quadratic equations by factoring

Section 8-7

Solving quadratic equations using square roots (no bx)

Section 8-9

Solving quadratic equations using the Quadratic Formula

CHAPTER 9

Section 9-1

Geometric sequence

Section 9-2

Graph of an exponential function

Section 9-3

Exponential growth	Exponential decay

CHAPTER 10

Section 10-3

Mean	Median	Mode

Range	outlier

Box and whisker plot	Dot plot

Section 10-5

Experimental probability

Section 10-6

Theoretical probability

Section 10-7

Probability of independent events	Probability of dependent events	Probability of mutual exclusive events	Probability of inclusive events