Wisconsin Mathematics

Essential Elements: High School: Algebra

Seeing Structure in Expressions A-SSE

A Interpret the structure of expressions. (M) M.A.SSE.A

1 Identify an algebraic expression involving one arithmetic operation to represent a real world problem. M.EE.A.SSE.1

2 Not applicable.

B Write expressions in equivalent forms to solve problems. (M) M.A.SSE.B

3 Solve simple algebraic equations with one variable using multiplication and division. M.EE.A.SSE.3

4 Determine the successive term in a geometric sequence given the common ratio. M.EE.A.SSE.4

Arithmetic with Polynomials and Rational Expressions A-APR

A Perform arithmetic operations on polynomials. M.A.APR.A

1 Not applicable.

B Understand the relationship between zeros and factors of polynomials. M.A.APR.B

2 Not applicable.

3 Not applicable.

C Use polynomial identities to solve problems. M.A.APR.C

4 Not applicable.

5 Not applicable.

D Rewrite rational expressions. M.A.APR.D

6 Not applicable.

7 Not applicable.

Creating Equations A-CED

A Create equations that describe numbers or relationships. (M) M.A.CED.A

1 Determine an equation involving at least one variable that can be used to solve a real-world problem. M.EE.A.CED.1

2 Solve one-step inequalities. M.EE.A.CED.2

3 Solve one-step inequalities. M.EE.A.CED.3

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4 Solve one-step inequalities. M.EE.A.CED.4

Reasoning with Equations and Inequalities A-REI

A Understand solving equations as a process of reasoning and explain the reasoning. M.A.REI.A

1 Not applicable.

2 Not applicable. See M.EE.A.CED.1.

B Solve equations and inequalities in one variable. M.A.REI.B

3 Not applicable. See M.EE.A.CED.1.

4 Not applicable.

C Solve systems of equations. M.A.REI.C

5 Not applicable.

6 Not applicable. See M.EE.A.REI.10.

7 Not applicable. See M.EE.A.REI.10.

8 Not applicable.

9 Not applicable.

D Represent and solve equations and inequalities graphically. M.A.REI.D

10 Interpret the meaning of a point on the graph of a line. For example, on a graph of pizza purchases, trace the graph to a point and tell the number of pizzas purchased and the total cost of the pizzas. M.EE.A.REI.10

11 Interpret the meaning of a point on the graph of a line. For example, on a graph of pizza purchases, trace the graph to a point and tell the number of pizzas purchased and the total cost of the pizzas. M.EE.A.REI.11

12 Interpret the meaning of a point on the graph of a line. For example, on a graph of pizza purchases, trace the graph to a point and tell the number of pizzas purchased and the total cost of the pizzas. M.EE.A.REI.12