Intermediate Algebra Learning Targets

<u>Target 1.1</u>

I can demonstrate understanding of how to represent a region on a graph with an inequality.

<u>Target 1.2</u>

I can demonstrate understanding of real-world situations that can be modeled as linear relationships with constraints.

<u>Target 1.3</u>

I can represent real-world situations as a linear programming problem and demonstrate an understanding of how to find reasonable solutions.

<u>Target 2.1</u>

I can demonstrate understanding of the definition of a function and can determine when relations are functions given a graph, table or real-world situation.

<u>Target 2.2</u>

I understand the meaning of function notation and can evaluate functions for a given input.

<u>Target 2.3</u>

I can demonstrate understanding of the significant features of a graph or table and their relationship to real-world situations.

<u>Target 3.1</u>

I can demonstrate understanding about exponential functions and compare situations and equations for exponential functions to those for linear functions.

<u>Target 3.2</u>

I can use tables and graphs to solve exponential equations including real world situations and translate between representations.

<u>Target 3.3</u>

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I can evaluate exponential functions in the form $y=ab^x$ and relate the meaning to the context of a real-world situation.

Target 3.4

I can demonstrate understanding of the significant features of a graph of an exponential function and their relationship to real-world situations.

Target 4.1

I can graph quadratic functions and demonstrate understanding of the relationship between different forms of quadratic equations and their graphs.

Target 4.2

I can demonstrate understanding of the significant features of a graph of a quadratic function and their relationship to real-world situations.

Target 4.3

I can translate quadratic equations from factored and vertex forms INTO standard form.

Target 4.4

I can translate quadratic equations from standard form INTO factored and vertex forms.

Target 4.5

I can use tables and graphs to solve quadratic equations including real world situations and translate between representations.

Target 4.6

I can graph quadratic inequalities and interpret them to solve real world situations.

Target 5.1

I can demonstrate understanding of how to find real and non-real solutions of quadratic equations for real-world situations.

Target 5.2

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I understand how to verify that my solution works and that it makes sense.

Target 5.3

I can determine the number of real and non-real solutions for a quadratic equation.

Target 5.4

I can represent relationships using quadratic inequalities and find solutions.

Target 6.1

I can graph square root and cube root functions and demonstrate understanding of the significant features of its graph.

Target 6.2

I can demonstrate understanding of radical expressions and expressions with rational exponents.

Target 6.3

I can solve equations with radical expressions and expressions with rational exponents.

Target 7.1

I can graph cubic functions and demonstrate understanding of the significant features of its graph and their relationship to real-world situations.

Target 7.2

I can demonstrate understanding of operations with polynomials.

Target 7.3

I understand advantages of different forms of cubic functions.

Target 7.4

I can find real solutions of cubic equations.

Target 8.1

I can graph absolute value equations and inequalities and demonstrate understanding of the significant features of its graph.

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<u>Target 8.2</u>

I can find solutions of absolute value equations and inequalities.