

Learning Targets

Transformations of Functions

Lesson 1: Matching up to Data

- I can describe how a graph is transformed.

Lesson 2: Moving Functions

- I can use function notation to represent a vertical or horizontal translation from one graph to another.

Lesson 3: More Movement

- I can write equations to represent vertical and horizontal translations of graphs.
- I understand the relationship between graphs and equations describing horizontal translations.

Lesson 4: Reflecting Functions

- I can reflect a graph across either the x - or y -axis.

Lesson 5: Some Functions Have Symmetry

- I can identify even and odd functions by their graphs.

Lesson 6: Symmetry in Equations

- I can complete graphs of even and odd functions if I know what half the graph looks like.
- I can identify even and odd functions by their equations.

Lesson 7: Expressing Transformations of Functions Algebraically

- I can write an equation from a description of how a graph is transformed.

Lesson 8: Scaling the Outputs

- I can calculate the scale factor needed to transform the output of a function to model data.

Lesson 9: Scaling the Inputs

- I can describe the effect of a scale factor on the input of a function.
- I understand the differences between scaling the outputs and scaling the inputs of a function.

Lesson 10: Combining Functions

- I can combine two functions in different ways.

Lesson 11: Making a Model for Data

- I can transform a function so its graph models a data set.