

Transformations Rules Homework Worksheet

Shifting Functions Left, Right, Up and Down

Name: _____

Date: _____

Go to link: <https://ggbm.at/pmq8bf2d>

Fill in the worksheet based on the information in each of the Geogebra applets. **The rule** is the version of $f(x)$ written in blue on each of the applet pages.

In each applet you'll see there is **a circle you can slide** to change the way the graph is positioned. Moved it around to get an idea of how the graphs can move.

A translation is a type of transformation.

A translation shifts a graph horizontally or vertically.

Movement	Rule	Sketch an Example
Shift Left		
Shift Right		
Shift Down		
Shift Up		

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Question 1: What is the difference between $f(x - c)$ and $f(x) - c$?

Question 2: If you a shift a parent function two units left and one unit up is it still the parent function? Explain you reasoning.
