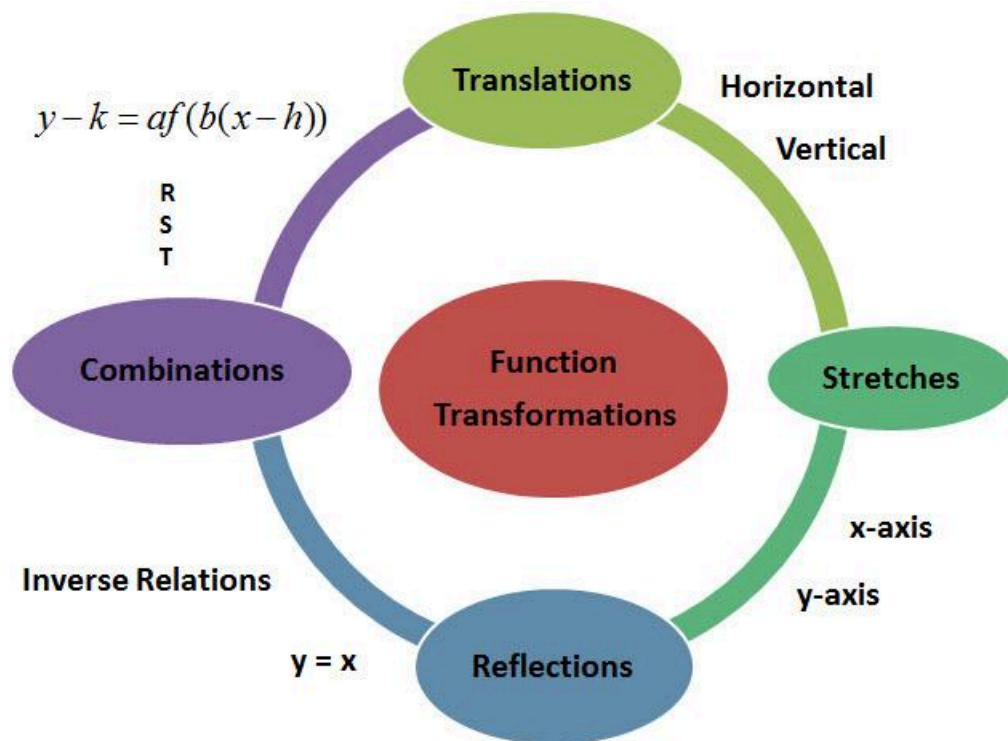


1. Function Transformations



1. Function Transformations Outline

1.0	Introduction Functions or Not, Domain and Range
1.1A	Horizontal Translations, terminology
1.1B	Horizontal and Vertical Translations
1.2A	Stretches
1.2B	Reflections
1.3	Combinations
	Quiz
1.4	Inverse Relations
	Review
	1. Function Transformations Exam

1.0 Introduction to Functions

The McGraw-Hill Ryerson PreCalculus 12 Text is used as the Main Resource.

Assignments in the Powerpoint Lesson Plans refer to pages and questions in the PreCalculus 12 text.

[1.0 Introduction notes](#)

Digital Resources to Support Visualization and Differentiate Instruction

Nspire Activities:

Many of the concepts in Math 30-1 include functions. The TI Nspire activity Function or Not a Function is a review of what makes a relation a function. This is a teacher led activity involving teacher/student discussion.

Send the TI Nspire files to student handhelds or display the file with the computer Document Player.

[Function Notation Nspire Activity](#)

Domain and Range is an important concept when working with functions. It's also a difficult concept for some students to understand. Since students have seen this concept in previous math classes, my teaching approach is to allow students to tap into their prior knowledge and become more active learners.

[Domain and Range Nspire Activity](#)

[Domain and Range Student Activity Worksheet](#)

Web Links:

[Domain and Range Video Tutorial including Interval Notation](#)

Transformations Notes

[Interactive Notes for Students](#)

1.1 Horizontal and Vertical Translations

Class Notes

The McGraw-Hill Ryerson PreCalculus 12 Text is used as the Main Resource.

Assignments in the Powerpoint Lesson Plans refer to pages and questions in the PreCalculus 12 text.

[1.1A Horizontal Translations](#)

[1.1B Horizontal and Vertical Translation](#)

Digital Resources to Support Visualization and Differentiate Instruction

Nspire Activities:

[1.1A Family of Functions](#)

[1.1B Move It](#)

Formative assessment

[formative assessment](#)

1.2 Reflections and Stretches

Class Notes

The McGraw-Hill Ryerson PreCalculus 12 Text is used as the Main Resource.

Assignments in the Powerpoint Lesson Plans refer to pages and questions in the PreCalculus 12 text.

[1.2A Stretches](#)

[1.2B Reflections](#)

Digital Resources to Support Visualization and Differentiate Instruction

Nspire Activities:

[1.2A Vertical Stretches](#)

[1.2B Exploring Reflections](#)

[Mathematica: A Library of Function Transformations](#)

Formative Assessment

[Transformations Stretches.doc](#)

[Transformations Reflections.doc](#)

1.3 Combining Transformations

Class Notes

The McGraw-Hill Ryerson PreCalculus 12 Text is used as the Main Resource.

Assignments in the Powerpoint Lesson Plans refer to pages and questions in the PreCalculus 12 text.

[1.3 Combining Transformations](#)

Formative Assessment

[Transformations Combinations of Transformations.doc](#)

1.4 Inverse of a Relation

Class Notes

The McGraw-Hill Ryerson PreCalculus 12 Text is used as the Main Resource.

Assignments in the Powerpoint Lesson Plans refer to pages and questions in the PreCalculus 12 text.

[1.4 Inverse of a Relation](#)

TI Nspire Files

[Functions and Inverses.tns](#)

Formative Assessment

[Transformations Inverses.docx](#)

1. Transformations of Functions Review

[1. Transformations of Functions Review](#)