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Functions & Transformations WORKSHOP

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Workshop Objectives

- Given the graph of a function $y = f(x)$, be able to graph the transformed function $y = af(b(c+x))+d$
- Provide a complete analysis of the following types of graphs: quadratic, root, reciprocal, exponential, & logarithmic
- Given the equation of $y = f(x)$, be able to determine the new equation, new domain, and sketch the transformed function $y = af(b(c+x))+d$
- Understand how to present & then prepare an IB portfolio and how to mark your work!

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Workshop Outline

- Follow this link to my website to see the portfolio task, description & IB marking scheme

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Culminating Assessment

- Of course, you may have the skill set from your previous math studies to demonstrate the required skills & concepts
- If you are, complete the portfolio assignment independently and also the following calculator inactive “quiz”

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Q1

- Sketch the graph of $f(x) = 1/x$ and then sketch a graph of $g(x) = -2f(3x - 6) + 4$ and provide a complete functional analysis of $g(x)$.

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Q2

- Given the following graph of $h(x)$, graph:
- $4k(x) + 0.5 = h(4-0.5x)$
- Show a detailed “sample calculation” of how you transformed the point $A(2,1)$ onto its image point


