

Function Inverse Extravaganza II partial key

The idea that unites all embodiments of *function inverse* is?

$$y = f(x) = \frac{6x-8}{x-2}$$

Algebra search for $f^{-1}(x)$:

x	y
-6	5.5
-2	5
0	4
1	2
3	10
4	8
6	7
10	6.5

$$\begin{aligned} 6y - 8 &= x \\ y - 2 &\\ xy - 2x &= 6y - 8 \\ xy - 6y &= 2x - 8 \\ y(x - 6) &= 2x - 8 \\ y &= \frac{2x - 8}{x - 6} \end{aligned}$$

x	y
5.5	-6
5	-2
4	0
2	1
10	3
8	4
7	6

Composition:

Compose the charts:

Compose the algebraic expressions:

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