

functions to instructions afl

Describing transformations Instructions

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- O Draw a sketch to demonstrate the transformation.

Example

The graph f(x) is transformed to

$$f(x) + 3$$

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Solution

A translation by $\begin{pmatrix} 0 \\ 3 \end{pmatrix}$ (move 3 units up).

The graph of f(x) is transformed to

$$f(x-5)$$

The graph of f(x) is transformed to

$$f(x) + 6$$

The graph of f(x) is transformed to

The graph of f(x) is transformed to

$$f(x-1)+3$$

The graph of f(x) is transformed to

$$\frac{1}{2}f(x) - 7$$

The graph of f(x) is transformed to

The graph of f(x) is transformed to

$$-f(2x)$$

The graph of f(x) is transformed to

$$-f(x+2)-6$$

The graph of f(x) is transformed to

$$f(9-x)+8$$

The graph of f(x) is transformed to

$$-f(-3x) + 5$$