

Graph transformations

28th Feb 2023

$$y = f(x) \quad (\text{original})$$

$$y = 2f(x) \quad \text{stretch in } y \text{ direction } \updownarrow$$

$$y = f(x) + 2 \quad 2 \text{ up}$$

$$y = f(x + 2) \quad \text{left } 2$$

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$$y = f(2x) \quad \text{stretch in } x \text{ direction } \rightarrow \leftarrow \text{ by } \frac{1}{2}$$

$$y = -f(x) \quad \text{reflect in } x \text{ axis}$$

$$y = f(-x) \quad \text{reflect in } y \text{ axis}$$