Functions, composition, transformations and inverses

ACT · Vocabulary in context

Word	Example
domain /dəˈmeɪn/	The **domain** of $f(x) = 1/x$ is every real number except 0.
range /reɪndʒ/	The **range** of $y = x^2$ is every number $y \geq 0$.
composition /ˌkɒmpəˈzɪʃn/	In a **composition**, apply the inside function first.
transformation /trænsfɔːˈmeɪʃn/	This **transformation** moves the graph three units up.
inverse function /ɪnˈvɜːs ˈfʌŋkʃn/	The **inverse function** of $f(x) = 2x$ is $f^{-1}(x) = x/2$.
one-to-one /wʌn tuː wʌn/	A **one-to-one** function never gives the same output twice.

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