Find $f^{-1}(x)$ for $f(x) = (x - 8)^2 + 7$, $x \leq 8$.

Find $f^{-1}(x)$ for $f(x) = 5^x + 1$.

Find $f^{-1}(x)$ for $f(x) = \sqrt[3]{x - 9}$.

$f(x) = 4^x - 2$. What is the domain of f^{-1}? (Write it like $x > 2$.)

Are $f(x) = 3^x + 3$ and $g(x) = \log_3(x - 3)$ inverse functions? Answer yes or no.

$f(x) = 3^x + 3$ and $g(x) = \log_3(x - 3)$. Find $g(f(2))$.

$f(x) = (x + 3)^3 - 9$. Find $f^{-1}(18)$.

$f(x) = \log_5(x) + 4$. Find $f^{-1}(7)$.

Inverse Functions: Quadratic, Radical & Exponential · 2

ANSWER

$\log_5(x - 1)$

Inverse Functions: Quadratic, Radical & Exponential · 1

ANSWER

$8 - \sqrt{(x - 7)}$

Inverse Functions: Quadratic, Radical & Exponential · 4

ANSWER

$x > -2$

Inverse Functions: Quadratic, Radical & Exponential · 3

ANSWER

$(x + 9)^3$

Inverse Functions: Quadratic, Radical & Exponential · 6

ANSWER

2

Inverse Functions: Quadratic, Radical & Exponential · 5

ANSWER

yes

Inverse Functions: Quadratic, Radical & Exponential · 8

ANSWER

125

Inverse Functions: Quadratic, Radical & Exponential · 7

ANSWER

0

Find $f^{-1}(x)$ for $f(x) = (x - 1)^2 - 7$, $x \leq 1$.

Find $f^{-1}(x)$ for $f(x) = 5^x + 2$.

Find $f^{-1}(x)$ for $f(x) = \sqrt[3]{(x + 9)} - 1$.

$f(x) = (x - 7)^2 - 2$, $x \geq 7$. What is the domain of f^{-1}? (Write it like $x \geq 2$.)

Are $f(x) = 2^x + 1$ and $g(x) = \log_2(x) - 1$ inverse functions? Answer yes or no.

$f(x) = 3^x + 4$ and $g(x) = \log_3(x - 4)$. Find $g(f(1))$.

$f(x) = (x + 1)^3 - 6$. Find $f^{-1}(-5)$.

$f(x) = \log_2(x) - 1$. Find $f^{-1}(2)$.

Inverse Functions: Quadratic, Radical & Exponential · 10

ANSWER

$\log_5(x - 2)$

Inverse Functions: Quadratic, Radical & Exponential · 9

ANSWER

$1 - \sqrt{(x + 7)}$

Inverse Functions: Quadratic, Radical & Exponential · 12

ANSWER

$x \geq -2$

Inverse Functions: Quadratic, Radical & Exponential · 11

ANSWER

$(x + 1)^3 - 9$

Inverse Functions: Quadratic, Radical & Exponential · 14

ANSWER

1

Inverse Functions: Quadratic, Radical & Exponential · 13

ANSWER

no

Inverse Functions: Quadratic, Radical & Exponential · 16

ANSWER

8

Inverse Functions: Quadratic, Radical & Exponential · 15

ANSWER

0

Find $f^{-1}(x)$ for $f(x) = (x + 9)^2 - 6$, $x \leq -9$.

Find $f^{-1}(x)$ for $f(x) = \log_5(x) - 5$.

Find $f^{-1}(x)$ for $f(x) = \sqrt[3]{(x + 1)} - 6$.

$f(x) = 2^x + 4$. What is the domain of f^{-1}? (Write it like $x > 2$.)

Are $f(x) = 4^x + 3$ and $g(x) = \log_4(x) - 3$ inverse functions? Answer yes or no.

$f(x) = 3^x - 3$ and $g(x) = \log_3(x + 3)$. Find $g(f(2))$.

$f(x) = (x + 1)^3$. Find $f^{-1}(-8)$.

$f(x) = \log_3(x) + 4$. Find $f^{-1}(6)$.

Inverse Functions: Quadratic, Radical & Exponential · 18

ANSWER

5^{x+5}

Inverse Functions: Quadratic, Radical & Exponential · 17

ANSWER

$-9 - \sqrt{(x + 6)}$

Inverse Functions: Quadratic, Radical & Exponential · 20

ANSWER

$x > 4$

Inverse Functions: Quadratic, Radical & Exponential · 19

ANSWER

$(x + 6)^3 - 1$

Inverse Functions: Quadratic, Radical & Exponential · 22

ANSWER

2

Inverse Functions: Quadratic, Radical & Exponential · 21

ANSWER

no

Inverse Functions: Quadratic, Radical & Exponential · 24

ANSWER

9

Inverse Functions: Quadratic, Radical & Exponential · 23

ANSWER

-3