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

Find $f^{-1}(x)$ for $f(x) = \sqrt[3]{(x - 4)} + 1$.

Find $f^{-1}(x)$ for $f(x) = \log_4(x) + 3$.

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

$f(x) = 2^x + 3$. What is the domain of f^{-1}? (Write it like $x > 2$.)

$f(x) = (x - 3)^2 - 5$, $x \geq 3$, and $g(x) = \sqrt{(x + 5)} + 3$. Find $f(g(31))$.

$f(x) = \log_3(x) + 2$. Find $f^{-1}(2)$.

$f(x) = 2^x + 5$ and $g(x) = \log_2(x - 5)$. Find $g(f(5))$.

Inverse Functions: Quadratic, Radical & Exponential · 2

ANSWER

$(x - 1)^3 + 4$

Inverse Functions: Quadratic, Radical & Exponential · 1

ANSWER

$\sqrt{(x - 6)} - 1$

Inverse Functions: Quadratic, Radical & Exponential · 4

ANSWER

5

Inverse Functions: Quadratic, Radical & Exponential · 3

ANSWER

4^{x-3}

Inverse Functions: Quadratic, Radical & Exponential · 6

ANSWER

31

Inverse Functions: Quadratic, Radical & Exponential · 5

ANSWER

$x > 3$

Inverse Functions: Quadratic, Radical & Exponential · 8

ANSWER

5

Inverse Functions: Quadratic, Radical & Exponential · 7

ANSWER

1

Find $f^{-1}(x)$ for $f(x) = (x - 7)^2 + 5$, $x \geq 7$.

Find $f^{-1}(x)$ for $f(x) = \sqrt[3]{(x - 3)} + 5$.

Find $f^{-1}(x)$ for $f(x) = \log_2(x - 5)$.

$f(x) = (x + 1)^3 + 1$. Find $f^{-1}(28)$.

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

$f(x) = (x - 5)^2 + 6$, $x \geq 5$, and $g(x) = \sqrt{(x - 6)} + 5$. Find $f(g(15))$.

$f(x) = \log_2(x) + 1$. Find $f^{-1}(5)$.

$f(x) = 2^x + 4$ and $g(x) = \log_2(x - 4)$. Find $g(f(2))$.

Inverse Functions: Quadratic, Radical & Exponential · 10

ANSWER

$(x - 5)^3 + 3$

Inverse Functions: Quadratic, Radical & Exponential · 9

ANSWER

$\sqrt{(x - 5)} + 7$

Inverse Functions: Quadratic, Radical & Exponential · 12

ANSWER

2

Inverse Functions: Quadratic, Radical & Exponential · 11

ANSWER

$2^x + 5$

Inverse Functions: Quadratic, Radical & Exponential · 14

ANSWER

15

Inverse Functions: Quadratic, Radical & Exponential · 13

ANSWER

$x > -4$

Inverse Functions: Quadratic, Radical & Exponential · 16

ANSWER

2

Inverse Functions: Quadratic, Radical & Exponential · 15

ANSWER

16

Find $f^{-1}(x)$ for $f(x) = (x + 4)^2 - 5$, $x \leq -4$.

Find $f^{-1}(x)$ for $f(x) = e^x - 4$.

Find $f^{-1}(x)$ for $f(x) = \sqrt[3]{(x - 4)} - 5$.

$f(x) = (x + 3)^2 - 7$, $x \geq -3$. What is the domain of f^{-1}? (Write it like $x \geq 2$.)

Are $f(x) = 5^x + 3$ and $g(x) = \log_5(x + 3)$ inverse functions? Answer yes or no.

$f(x) = 2^x + 5$ and $g(x) = \log_2(x - 5)$. Find $g(f(1))$.

$f(x) = (x - 3)^3 + 2$. Find $f^{-1}(1)$.

$f(x) = \log_5(x) + 1$. Find $f^{-1}(2)$.

Inverse Functions: Quadratic, Radical & Exponential · 18

ANSWER

$\ln(x + 4)$

Inverse Functions: Quadratic, Radical & Exponential · 17

ANSWER

$-4 - \sqrt{(x + 5)}$

Inverse Functions: Quadratic, Radical & Exponential · 20

ANSWER

$x \geq -7$

Inverse Functions: Quadratic, Radical & Exponential · 19

ANSWER

$(x + 5)^3 + 4$

Inverse Functions: Quadratic, Radical & Exponential · 22

ANSWER

1

Inverse Functions: Quadratic, Radical & Exponential · 21

ANSWER

no

Inverse Functions: Quadratic, Radical & Exponential · 24

ANSWER

5

Inverse Functions: Quadratic, Radical & Exponential · 23

ANSWER

2