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

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

$f(x) = x^2 + 3$, $x \geq 0$. Find $f^{-1}(12)$.

$f(x) = 4^x$. Find $f^{-1}(64)$.

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

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

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

Find $f^{-1}(x)$ for $f(x) = x^2 - 3$, $x \geq 0$.

Inverse Functions: Quadratic, Radical & Exponential · 2

ANSWER

$\log_3(x)$

Inverse Functions: Quadratic, Radical & Exponential · 1

ANSWER

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

Inverse Functions: Quadratic, Radical & Exponential · 4

ANSWER

3

Inverse Functions: Quadratic, Radical & Exponential · 3

ANSWER

3

Inverse Functions: Quadratic, Radical & Exponential · 6

ANSWER

1

Inverse Functions: Quadratic, Radical & Exponential · 5

ANSWER

$\sqrt{(x - 3)} + 1$

Inverse Functions: Quadratic, Radical & Exponential · 8

ANSWER

$\sqrt{(x + 3)}$

Inverse Functions: Quadratic, Radical & Exponential · 7

ANSWER

$\sqrt{(x + 2)} + 2$

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

$f(x) = (x - 2)^2 + 1$, $x \geq 2$. Find $f^{-1}(17)$.

$f(x) = x^3 - 3$. Find $f^{-1}(-30)$.

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

$f(x) = 5^x$. Find $f^{-1}(25)$.

$f(x) = (x - 2)^2 + 3$, $x \geq 2$, and $g(x) = \sqrt{(x - 3)} + 2$. Find $f(g(12))$.

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

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

Inverse Functions: Quadratic, Radical & Exponential · 10

ANSWER

6

Inverse Functions: Quadratic, Radical & Exponential · 9

ANSWER

$(x - 1)^3 + 1$

Inverse Functions: Quadratic, Radical & Exponential · 12

ANSWER

$x \geq 0$

Inverse Functions: Quadratic, Radical & Exponential · 11

ANSWER

-3

Inverse Functions: Quadratic, Radical & Exponential · 14

ANSWER

12

Inverse Functions: Quadratic, Radical & Exponential · 13

ANSWER

2

Inverse Functions: Quadratic, Radical & Exponential · 16

ANSWER

$(x + 5)^3 + 5$

Inverse Functions: Quadratic, Radical & Exponential · 15

ANSWER

$\sqrt{(x - 5)} - 1$

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

$f(x) = (x - 4)^2 - 3$, $x \geq 4$. Find $f^{-1}(6)$.

$f(x) = (x - 3)^3 + 4$. Find $f^{-1}(-23)$.

$f(x) = (x - 4)^2 - 3$, $x \geq 4$. What is the domain of f^{-1}? (Write it like $x \geq 2$.)

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

$f(x) = x^2 - 2$, $x \geq 0$, and $g(x) = \sqrt{(x + 2)}$. Find $f(g(23))$.

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

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

Inverse Functions: Quadratic, Radical & Exponential · 18

ANSWER

7

Inverse Functions: Quadratic, Radical & Exponential · 17

ANSWER

2^x

Inverse Functions: Quadratic, Radical & Exponential · 20

ANSWER

$x \geq -3$

Inverse Functions: Quadratic, Radical & Exponential · 19

ANSWER

0

Inverse Functions: Quadratic, Radical & Exponential · 22

ANSWER

23

Inverse Functions: Quadratic, Radical & Exponential · 21

ANSWER

1

Inverse Functions: Quadratic, Radical & Exponential · 24

ANSWER

$\log_2(x)$

Inverse Functions: Quadratic, Radical & Exponential · 23

ANSWER

$\sqrt{(x + 1)} + 2$