Task card 1 Inverse Functions: Quadratic, Radi...

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

Task card 2 Inverse Functions: Quadratic, Radi...

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

Task card 3 Inverse Functions: Quadratic, Radi...

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

Task card 4 Inverse Functions: Quadratic, Radi...

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

Task card 5 Inverse Functions: Quadratic, Radi...

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

Task card 6 Inverse Functions: Quadratic, Radi...

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

Task card 7 Inverse Functions: Quadratic, Radi...

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

Task card 8 Inverse Functions: Quadratic, Radi...

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

Task card 9 Inverse Functions: Quadratic, Radi...

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

Task card 10 Inverse Functions: Quadratic, Radi...

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

Task card 11 Inverse Functions: Quadratic, Radi...

$f(x) = x^3 - 3$.

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

Task card 12 Inverse Functions: Quadratic, Radi...

$f(x) = (x - 4)^2, x \geq 4$.

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

Task card 13 Inverse Functions: Quadratic, Radi...

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

Task card 14 Inverse Functions: Quadratic, Radi...

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

Task card 15 Inverse Functions: Quadratic, Radi...

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

Task card 16 Inverse Functions: Quadratic, Radi...

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

Task card 17 Inverse Functions: Quadratic, Radi...

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

Task card 18 Inverse Functions: Quadratic, Radi...

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

Task card 19 Inverse Functions: Quadratic, Radi...

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

Task card 20 Inverse Functions: Quadratic, Radi...

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

Task card 21 Inverse Functions: Quadratic, Radi...

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

Task card 22 Inverse Functions: Quadratic, Radi...

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

Task card 23 Inverse Functions: Quadratic, Radi...

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

Task card 24 Inverse Functions: Quadratic, Radi...

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

Inverse Functions: Quadratic, Radical & Exponential Task Cards

Recording sheet · Grade 11 · Solve each problem. Write inverses like √(x - 3) + 2, (x - 1)^3 + 4, log_2(x - 5) or 3^x + 1, and domains like x ≥ 2. Answer yes or no where asked.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Inverse Functions: Quadratic, Radical & Exponential Task Cards: Answer Key

Grade 11 · Easy

The answers online

1. $\sqrt{(x - 1)} + 1$	**2.** $\log_3(x)$	**3.** 3
4. 3	**5.** $\sqrt{(x - 3)} + 1$	**6.** 1
7. $\sqrt{(x + 2)} + 2$	**8.** $\sqrt{(x + 3)}$	**9.** $(x - 1)^3 + 1$
10. 6	**11.** -3	**12.** $x \geq 0$
13. 2	**14.** 12	**15.** $\sqrt{(x - 5)} - 1$
16. $(x + 5)^3 + 5$	**17.** 2^x	**18.** 7
19. 0	**20.** $x \geq -3$	**21.** 1
22. 23	**23.** $\sqrt{(x + 1)} + 2$	**24.** $\log_2(x)$