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

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

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

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

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

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

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

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

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

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

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

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

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

Find $f(g(31))$.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 · Medium

The answers online

1. $\sqrt{(x - 6)} - 1$	**2.** $(x - 1)^3 + 4$	**3.** 4^{x-3}
4. 5	**5.** $x > 3$	**6.** 31
7. 1	**8.** 5	**9.** $\sqrt{(x - 5)} + 7$
10. $(x - 5)^3 + 3$	**11.** $2^x + 5$	**12.** 2
13. $x > -4$	**14.** 15	**15.** 16
16. 2	**17.** $-4 - \sqrt{(x + 5)}$	**18.** $\ln(x + 4)$
19. $(x + 5)^3 + 4$	**20.** $x \geq -7$	**21.** no
22. 1	**23.** 2	**24.** 5