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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 · Hard

The answers online

1. $8 - \sqrt{(x - 7)}$	**2.** $\log_5(x - 1)$	**3.** $(x + 9)^3$
4. $x > -2$	**5.** yes	**6.** 2
7. 0	**8.** 125	**9.** $1 - \sqrt{(x + 7)}$
10. $\log_5(x - 2)$	**11.** $(x + 1)^3 - 9$	**12.** $x \geq -2$
13. no	**14.** 1	**15.** 0
16. 8	**17.** $-9 - \sqrt{(x + 6)}$	**18.** 5^{x+5}
19. $(x + 6)^3 - 1$	**20.** $x > 4$	**21.** no
22. 2	**23.** -3	**24.** 9