Task card 1 Inverses of Linear Functions

Find the inverse of f(x) = 1/4x - 1.

Task card 2 Inverses of Linear Functions

$f(x) = 2x - 1$.

Find $f^{-1}(13)$.

Task card 3 Inverses of Linear Functions

$f(x) = 3x + 6$ and $g(x) = \frac{x - 6}{3}$. Are f and g inverses of each other?

Task card 4 Inverses of Linear Functions

Find the inverse of f(x) = 4/3x + 12.

Task card 5 Inverses of Linear Functions

F(c) = 9/5c + 32 changes c degrees Celsius to degrees Fahrenheit. Find $F^{-1}(50)$, the Celsius temperature that equals 50 degrees Fahrenheit.

Task card 6 Inverses of Linear Functions

Find the inverse of f(x) = 4x + 12.

Task card 7 Inverses of Linear Functions

$f(x) = -3x + 6$ and $g(x) = -1/3x + 2$. Are f and g inverses of each other?

Task card 8 Inverses of Linear Functions

$f(x) = 2/3x - 8$. Find $f^{-1}(-2)$.

Task card 9 Inverses of Linear Functions

Find the inverse of $f(x) = -1/2x + 5$.

Task card 10 Inverses of Linear Functions

$f(x) = -6x - 8$.

Find $f^{-1}(-38)$.

Task card 11 Inverses of Linear Functions

$f(x) = 3x + 18$ and $g(x) = \frac{x - 18}{3}$. Are f and g inverses of each other?

Task card 12 Inverses of Linear Functions

Find the inverse of $f(x) = 3/4x - 9$.

Task card 13 Inverses of Linear Functions

Find the inverse of $f(x) = 5x - 20$.

Task card 14 Inverses of Linear Functions

$f(x) = -3x - 12$ and $g(x) = -1/3x - 4$. Are f and g inverses of each other?

Task card 15 Inverses of Linear Functions

$f(x) = 3/2x - 5$. Find $f^{-1}(4)$.

Task card 16 Inverses of Linear Functions

Find the inverse of $f(x) = 3/4x + 6$.

Task card 17 Inverses of Linear Functions

$f(x) = 3x - 8$.

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

Task card 18 Inverses of Linear Functions

$f(x) = 5x - 10$ and $g(x) = \frac{x - 10}{5}$. Are f and g inverses of each other?

Task card 19 Inverses of Linear Functions

$F(c) = 9/5c + 32$ changes c degrees Celsius to degrees Fahrenheit. Find $F^{-1}(86)$, the Celsius temperature that equals 86 degrees Fahrenheit.

Task card 20 Inverses of Linear Functions

Find the inverse of $f(x) = -5x - 10$.

Task card 21 Inverses of Linear Functions

$f(x) = 4x - 24$ and $g(x) = \frac{x + 24}{4}$. Are f and g inverses of each other?

Task card 22 Inverses of Linear Functions

$f(x) = -2/3x + 8$. Find $f^{-1}(4)$.

Task card 23 Inverses of Linear Functions

Find the inverse of $f(x) = 2/5x - 6$.

Task card 24 Inverses of Linear Functions

$f(x) = 6x - 2$. Find $f^{-1}(40)$.

Inverses of Linear Functions Task Cards

Recording sheet · Grade 9 · Write an inverse function in slope-intercept form without "f^-1(x) =", like 1/3x - 2 or 2x + 6. Write a point like (8, 3). Answer yes or no when asked whether two functions are inverses.

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

Inverses of Linear Functions Task Cards: Answer Key

Grade 9 · Hard

The answers online

1. 4x + 4	**2.** 7	**3.** yes
4. 3/4x - 9	**5.** 10	**6.** 1/4x - 3
7. yes	**8.** 9	**9.** -2x + 10
10. 5	**11.** yes	**12.** 4/3x + 12
13. 1/5x + 4	**14.** yes	**15.** 6
16. 4/3x - 8	**17.** 2	**18.** no
19. 30	**20.** -1/5x - 2	**21.** yes
22. 6	**23.** 5/2x + 15	**24.** 7