Task card 1 Inverses of Linear Functions

$f(x) = 4x + 3$.

Find $f^{-1}(27)$.

Task card 2 Inverses of Linear Functions

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

Task card 3 Inverses of Linear Functions

$f(x) = 5x - 5$ and $g(x) = 1/5x - 1$. Are f and g inverses of each other?

Task card 4 Inverses of Linear Functions

Find the inverse of $f(x) = -3x - 21$.

Task card 5 Inverses of Linear Functions

$f(x) = 7x + 8$.

Find $f^{-1}(36)$.

Task card 6 Inverses of Linear Functions

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

Task card 7 Inverses of Linear Functions

Find the inverse of $f(x) = 6x + 24$.

Task card 8 Inverses of Linear Functions

$f(x) = 5x + 8$.

Find $f^{-1}(43)$.

Task card 9 Inverses of Linear Functions

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

Task card 10 Inverses of Linear Functions

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

Task card 11 Inverses of Linear Functions

Find the inverse of $f(x) = 6x + 18$.

Task card 12 Inverses of Linear Functions

$f(x) = -6x + 3$.

Find $f^{-1}(-15)$.

Task card 13 Inverses of Linear Functions

$f(x) = -5x + 5$ and $g(x) = -1/5x + 1$. Are f and g inverses of each other?

Task card 14 Inverses of Linear Functions

Find the inverse of $f(x) = 5x + 15$.

Task card 15 Inverses of Linear Functions

Find the inverse of $f(x) = 2/5x + 8$.

Task card 16 Inverses of Linear Functions

$f(x) = 5x - 3$.

Find $f^{-1}(37)$.

Task card 17 Inverses of Linear Functions

$f(x) = -2x - 4$ and $g(x) = -1/2x - 2$. Are f and g inverses of each other?

Task card 18 Inverses of Linear Functions

Find the inverse of $f(x) = -2/3x - 6$.

Task card 19 Inverses of Linear Functions

A gym membership costs C(n) = 30n + 20 dollars for n months. Find $C^{-1}(260)$, the number of months for a total cost of $260.

Task card 20 Inverses of Linear Functions

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

Task card 21 Inverses of Linear Functions

$f(x) = 5x - 15$ and $g(x) = \frac{x - 15}{5}$. Are f and g inverses of each other?

Task card 22 Inverses of Linear Functions

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

Task card 23 Inverses of Linear Functions

f(x) = -2x - 8. Find $f^{-1}(-12)$.

Task card 24 Inverses of Linear Functions

Find the inverse of f(x) = -2x - 12.

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 · Medium

The answers online

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