Task card 1 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_2(1 - x)$.

Task card 2 Domain of Logarithmic Functions

Find the domain of $f(x) = \log(x + 5)$.

Task card 3 Domain of Logarithmic Functions

Find the domain of $f(x) = 2\log(-x) - 2$.

Task card 4 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_5(2x - 2)$.

Task card 5 Domain of Logarithmic Functions

Find the domain of $f(x) = \log(8 - x)$.

Task card 6 Domain of Logarithmic Functions

Find the domain of $f(x) = 3\log_5(4x) + 8$.

Task card 7 Domain of Logarithmic Functions

Find the domain of $f(x) = \ln(-x - 8)$.

Task card 8 Domain of Logarithmic Functions

Find the domain of $f(x) = \log(4x + 28)$.

Task card 9 Domain of Logarithmic Functions

Find the domain of $f(x) = \ln(-3x - 21)$.

Task card 10 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_4(2x + 6)$.

Task card 11 Domain of Logarithmic Functions

Find the domain of $f(x) = 4\log_4(45 - 5x) - 1$.

Task card 12 Domain of Logarithmic Functions

Find the domain of $f(x) = \ln(3x - 21)$.

Task card 13 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_7(8 - 2x)$.

Task card 14 Domain of Logarithmic Functions

Find the domain of $f(x) = 3log_3(5x + 40) - 2$.

Task card 15 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_2(16 - 4x)$.

Task card 16 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_7(4x - 8)$.

Task card 17 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_4(x - 8)$.

Task card 18 Domain of Logarithmic Functions

Find the domain of $f(x) = \ln(2x + 9)$.

Task card 19 Domain of Logarithmic Functions

Find the domain of $f(x) = 2\log_2(5x - 30) - 5$.

Task card 20 Domain of Logarithmic Functions

Find the domain of $f(x) = \log(-2x - 5)$.

Task card 21 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_3(2x - 16)$.

Task card 22 Domain of Logarithmic Functions

Find the domain of $f(x) = 2\log_4(2x + 5) + 3$.

Task card 23 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_2(2x - 4)$.

Task card 24 Domain of Logarithmic Functions

Find the domain of $f(x) = \log(-3x - 2)$.

Domain of Logarithmic Functions Task Cards

Recording sheet · Grade 11 · Write each domain as an inequality, like x > 3, x < -2 or x > 5/2.

Name: _____ Date: _____

Scan to check your answers

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

Domain of Logarithmic Functions Task Cards: Answer Key

Grade 11 · Medium

The answers online

1. $x < 1$	**2.** $x > -5$	**3.** $x < 0$
4. $x > 1$	**5.** $x < 8$	**6.** $x > 0$
7. $x < -8$	**8.** $x > -7$	**9.** $x < -7$
10. $x > -3$	**11.** $x < 9$	**12.** $x > 7$
13. $x < 4$	**14.** $x > -8$	**15.** $x < 4$
16. $x > 2$	**17.** $x > 8$	**18.** $x > -\frac{9}{2}$
19. $x > 6$	**20.** $x < -\frac{5}{2}$	**21.** $x > 8$
22. $x > -\frac{5}{2}$	**23.** $x > 2$	**24.** $x < -\frac{2}{3}$