Task card 1 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_7(x + 9)$.

Task card 2 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_4(3x + 1)$.

Task card 3 Domain of Logarithmic Functions

Find the domain of $f(x) = 4\log_2(8 - 2x) + 7$.

Task card 4 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_3(-3x - 7)$.

Task card 5 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_3(x - 1)$.

Task card 6 Domain of Logarithmic Functions

Find the domain of $f(x) = 5\log_7(2x + 9) + 1$.

Task card 7 Domain of Logarithmic Functions

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

Task card 8 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_2(4x - 11)$.

Task card 9 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_4(-3x - 15)$.

Task card 10 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_2(10 - 3x)$.

Task card 11 Domain of Logarithmic Functions

Find the domain of $f(x) = 3\log_4(2x + 16) - 6$.

Task card 12 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_3(-4x - 2)$.

Task card 13 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_7(14 - 2x)$.

Task card 14 Domain of Logarithmic Functions

Find the domain of $f(x) = 5\log_4(-2x - 9) - 2$.

Task card 15 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_2(4x - 28)$.

Task card 16 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_7(6 - 4x)$.

Task card 17 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_3(x + 5)$.

Task card 18 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_3(4x - 3)$.

Task card 19 Domain of Logarithmic Functions

Find the domain of $f(x) = 5\log_2(-3x - 27) + 6$.

Task card 20 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_4(2x + 9)$.

Task card 21 Domain of Logarithmic Functions

Find the domain of $f(x) = \log_7(5x + 30)$.

Task card 22 Domain of Logarithmic Functions

Find the domain of $f(x) = 3\log_7(4x - 9) - 4$.

Task card 23 Domain of Logarithmic Functions

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

Task card 24 Domain of Logarithmic Functions

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

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 · Hard

The answers online

1. $x > -9$

2. $x > -\frac{1}{3}$

3. $x < 4$

4. $x < -\frac{7}{3}$

5. $x > 1$

6. $x > -\frac{9}{2}$

7. $x < -2$

8. $x > \frac{11}{4}$

9. $x < -5$

10. $x < \frac{10}{3}$

11. $x > -8$

12. $x < -\frac{1}{2}$

13. $x < 7$

14. $x < -\frac{9}{2}$

15. $x > 7$

16. $x < \frac{3}{2}$

17. $x > -5$

18. $x > \frac{3}{4}$

19. $x < -9$

20. $x > -\frac{9}{2}$

21. $x > -6$

22. $x > \frac{9}{4}$

23. $x > 0$

24. $x < -\frac{5}{2}$