



Calcula los dominios de las siguientes funciones:

1. $f(x) = \log \sqrt[3]{x^2 - 2x - 8}$

2. $f(x) = \log \sqrt[5]{8x - 15 - x^2}$

3. $f(x) = \frac{\sqrt[6]{x^3 - 3x^2 - 4x + 12}}{x^2 - 9}$

4. $f(x) = \sqrt[4]{\frac{x^3 - 4x^2 + x + 6}{3x - 2 - x^2}}$

5. $f(x) = \frac{\sqrt[4]{6x^2 - 9x - x^3}}{16 - x^4}$

6. $f(x) = \frac{\sqrt[6]{8x^2 - x^3 - 16x}}{81 - x^4}$

7. $f(x) = \sqrt[4]{\frac{10x + 3x^2 - x^3}{x^4 - 16}}$

8. $f(x) = \sqrt[6]{\frac{16 - x^4}{x^3 - 7x^2 + 10x}}$

9. $f(x) = \frac{\log(10x - 21 - x^2)}{x^3 - 4x^2 - 5x}$

10. $f(x) = \sqrt{\frac{x-1}{x+2}}$

11. $f(x) = \frac{x^2 - 3}{x^2 - 3x + 2}$

12. $f(x) = \frac{\sqrt{x-1}}{\sqrt{x+2}}$

13. $f(x) = \frac{x+4}{\sqrt{x^2 - 5x + 6}}$

14. $f(x) = \frac{\sqrt{x^2 - 5x + 6}}{x+4}$

15. $f(x) = \sqrt{\frac{x+4}{x^2 - 5x + 6}}$

16. $f(x) = \frac{\sqrt{x+4}}{\sqrt{x^2 - 5x + 6}}$

17. $f(x) = \sqrt{1 - \cos x}$

18. $f(x) = \sqrt{1 - \sin^2 x}$

19. $f(x) = \ln \sqrt{1 - 3x}$

20. $f(x) = \ln \frac{x}{x^2 + 1}$

21. $f(x) = \arccos(\ln x)$

22. $f(x) = \log(x^2 + 5x + 6)$

23. $f(x) = \sqrt{\ln(x^2 - 4)}$

24. $f(x) = \ln[\log(x^2)]$

25. $f(x) = \frac{1}{1 - |\sin x|}$

26. $f(x) = \arcsen(x - 7)$

27. $f(x) = \sqrt[3]{\frac{x}{x^2 - 5x + 6}}$

28. $f(x) = \sqrt[3]{\frac{3x + 2}{x + 1}}$

29. $f(x) = \begin{cases} \frac{x}{x+4} & \text{si } x < 0 \\ \sqrt{\frac{3}{x-3}} & \text{si } x > 0 \end{cases}$

30. $f(x) = e^{2x-3}$

31. $f(x) = \ln(x - 2)$



Calcula los dominios de las siguientes funciones:

1. $\mathbb{R} - [-2, 4]$

2. $(3, 5)$

3. $[-2, 2] \cup (3, +\infty)$

4. $(-\infty, -1] \cup (1, 3) - \{2\}$

5. $\langle (-\infty, 0) - \{-2\} \rangle \cup \{3\}$

6. $\langle (-\infty, 0) - \{-3\} \rangle \cup \{4\}$

7. $\langle (-\infty, 0) - \{-2\} \rangle \cup (2, 5]$

8. $(-\infty, -2] \cup \langle (0, 5) - \{2\} \rangle$

9. $(3, 7) - \{5\}$

10. $\mathbb{R} - [-2, 1)$

11. $\mathbb{R} - \{1, 2\}$

12. $[1, +\infty)$

13. $(-\infty, 2) \cup (3, +\infty)$

14. $\langle (-\infty, 2] - \{-4\} \rangle \cup [3, +\infty)$

15. $[-4, 2] \cup (3, +\infty)$

16. $[-4, 2) \cup (3, +\infty)$

17. \mathbb{R}

18. \mathbb{R}

19. $\left(-\infty, \frac{1}{3}\right)$

20. $(0, +\infty)$

21. $\left[\frac{1}{e}, e\right]$

22. $\mathbb{R} - [-3, -2]$

23. $\mathbb{R} - (-\sqrt{5}, \sqrt{5})$

24. $\mathbb{R} - [-1, 1]$

25. $\mathbb{R} - \left\{ \frac{\pi}{2} + k\pi \mid k \in \mathbb{Z} \right\}$

26. $[6, 8]$

27. $\mathbb{R} - \{2, 3\}$

28. $\mathbb{R} - \{-1\}$

29. $\langle (-\infty, 0) - \{-4\} \rangle \cup (3, +\infty)$

30. \mathbb{R}

31. $(2, +\infty)$