

Cálculo de dominio de una función

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Ejercicios

1. $f(x) = \frac{1}{x-3}$
2. $f(x) = \frac{x^2+1}{x^2-4}$
3. $f(x) = \sqrt{x^2-5}$
4. $f(x) = \frac{\sqrt{x+2}}{x-1}$
5. $f(x) = \sqrt{9-x^2}$
6. $f(x) = \frac{1}{x^3-8}$
7. $f(x) = \sqrt{x^4-16}$
8. $f(x) = \frac{x^2-1}{\sqrt{x-4}}$
9. $f(x) = \frac{\sqrt{x^2-9}}{x+5}$
10. $f(x) = \frac{1}{\sqrt{x^2-2x}}$
11. $f(x) = \sqrt{\frac{x+1}{x-2}}$
12. $f(x) = \frac{1}{x^2+3x+2}$
13. $f(x) = \sqrt{x^2-4x+4}$
14. $f(x) = \frac{\sqrt{x^2+1}}{x^2-1}$
15. $f(x) = \frac{1}{\sqrt{9-x}}$
16. $f(x) = \sqrt{\frac{x^2-16}{x^2+4}}$
17. $f(x) = \frac{x^3}{\sqrt{x^2-25}}$
18. $f(x) = \frac{1}{x^4-1}$
19. $f(x) = \sqrt{x^2+2x-3}$
20. $f(x) = \frac{\sqrt{x-1}}{x^2-9}$

Resultados

1. $\mathbb{R} \setminus \{3\}$
2. $\mathbb{R} \setminus \{-2, 2\}$
3. $(-\infty, -\sqrt{5}] \cup [\sqrt{5}, \infty)$
4. $[-2, \infty) \setminus \{1\}$
5. $[-3, 3]$
6. $\mathbb{R} \setminus \{2\}$
7. $(-\infty, -2] \cup [2, \infty)$
8. $(4, \infty)$
9. $(-\infty, -3] \cup [3, \infty)$, excluyendo
 $x = -5$
10. $(-\infty, 0) \cup (2, \infty)$
11. $(-\infty, -1] \cup (2, \infty)$
12. $\mathbb{R} \setminus \{-1, -2\}$
13. $\mathbb{R}$
14. $\mathbb{R} \setminus \{-1, 1\}$
15. $(-\infty, 9)$
16. $(-\infty, -4] \cup [4, \infty)$
17. $(-\infty, -5) \cup (5, \infty)$
18. $\mathbb{R} \setminus \{-1, 1\}$
19. $(-\infty, -3] \cup [1, \infty)$
20. $[1, \infty) \setminus \{-3, 3\}$