

Pre-Calculus

Analyze a rational function and identify its key features.

1. $f(x) = \frac{x-3}{x+7}$

2. $f(x) = \frac{x+9}{2x-18}$

3. $f(x) = \frac{2x+3}{3x-5}$

4. $f(x) = \frac{4x+1}{3x-11}$

5. $f(x) = \frac{x+5}{x^2-9}$

6. $f(x) = \frac{x-7}{x^2-36}$

7. $f(x) = \frac{2x^2-18}{x^2+8x}$

8. $f(x) = \frac{4x^2-12x}{x^2-4}$

9. $f(x) = \frac{x+12}{x^2-2x-15}$

10. $f(x) = \frac{x^2+2x-35}{3x^2-48}$

11. $f(x) = \frac{x^2+14x+40}{x^2-14x+33}$

12. $f(x) = \frac{x^2-4x-45}{2x^2-8x-64}$