

Find all asymptotes (VA, HA, SA) for the graphs of these rational functions.

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

2. $y = \frac{x(x-1)(x+3)}{(x-5)(x+2)}$

3. $y = \frac{3x(x-2)}{(x-4)(5x+2)}$

4. $y = \frac{(x-8)(x+4)}{(2x-1)(x-3)(x+1)}$

5. $y = \frac{4(x-2)(x+9)}{(-2x+3)(x-1)}$

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

7. $y = \frac{4x^2+3}{x^2+9}$

8. $y = \frac{x^3-x^2-12x}{2(x^2-5x-14)}$

9. $y = \frac{x^2-3x}{5x^2-1}$

10. $y = \frac{x(x+2)(x-5)(2x+7)}{(x+5)^2(3x+1)^2}$