

For each of the following find: A) domain B) x-intercept(s)

C) y-intercept D) vertical asymptotes E) horizontal asymptotes

F) holes G) one or two key points. Then graph. BE SURE

TO SHOW THE ASYMPTOTES ON THE GRAPH.

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

2) $f(x) = \frac{x^2-1}{x+2}$

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

4) $f(x) = \frac{2x^2}{x^2-x-6}$

5) $f(x) = \frac{-3x^2+3}{x^2-4}$

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

7) $f(x) = \frac{5x}{x^2+x-12}$

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

9) $f(x) = \frac{x^2-4}{x^2-4x+4}$

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

11) $f(x) = \frac{2}{x^2-4x+4}$

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